

tttacgagtt cctgacggac ctatcnttct caatgatttg cggcgaangg accnttgcaa 360
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 ca 422

<210> 5115
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-E6
 <400> 5115

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 ttttactctc aaagctttca tctttcattc anctacttaa gctccaanta tggcaggatc 180
 cgcaccggaa ggaacacant ttgatacgcg tcagtttgac cagaggctga atgaagttct 240
 cgatggacag gatgagttct tcacctcata tgatgaggtc catgacagct ttgatgccat 300
 gggtttgcaa gagaatcttc ataggggtan ctatgcttac ngtttcgaaa agncttcngc 360
 tattcaacan nnaggaattg tacccttttg caagggtcct gatgtgatcc agcaggcaca 420
 gtctggttct ggaaaaaccg ccactttctg ctctggtgtc ttcancaa 468

<210> 5116
 <211> 496
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-F11
 <400> 5116

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 agtcacacat ggtgttgatg ggactggtct cactgccata gtcacaggag catcaagtgg 180
 tataggagta gagacagcgc gtgttctttc actgctgtgt gtgcatgtgg ttatggcggt 240
 gaggaacact gactctgggt gctaaagtta aggaagatat tgtcaagcaa gtccttgag 300

agctttccac agtcaaactc aaccggtgat tgattactac gcaaagaagg ccgttctcac 300
 aaacatccag gccgagaagg ctccccaaga agttacatca naggttaaaa aagcattgtc 360
 atgatcaaag actcctcaag caaatcatct cctccgggnt anaatccaat ccttttcctt 420
 actaacaag agagaagac acatctatat natccaactc atcctggcng gaattgacaa 480
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<210> 5119
 <211> 455
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-B1

<400> 5119
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 tctctttcct cctccgccgt ataattcgcc ggaaaaatta tctcccttg attttcgaac 120
 acctccgcga actatgcgt tcttttgccc ttatctcca actactgtc ggatctgcaa 180
 ttcttcttgt caattcccaa ccctaatcgg agctaatac acctctgtc gtttctcttc 240
 tcgttagtct ctgtccatc tctctctcag atttaaggga tatttgcttc caatttaaca 300
 aacaaaccaa gagctattct tcgttcttta atctctccgt cttgtaaagt agtttttagca 360
 gtgagatata taaaatgga gacttcatgg ggaaaccaag cttctacggg aaataanggt 420
 cgcgtgcttc ncnttggggg tctacaacgg tgga 455

<210> 5120
 <211> 460
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-B11

<400> 5120
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 acaacaactc caacgatct ttccgttctt atcagcctcg cacttccgat gacgatcatc 180

gtcgccgggc tacaacaatt gctcctccac cgaaagcatc cgacgcgctt cctcttccgt 240
tatatctcac aaacgccgtt ttcttcacgc tcttcttctc cgtcgcgtat tacctcctcc 300
ancggtggcg tgacaagatc gttacaatac gctcttcang tcgtcactat canagaactc 360
ggcgccatta atgctcccat tgcntcggtt aactanctcc naagggtttt tggtaatgaa 420
tttggttaat catttaactc aagtnctcc gggatgaagcc 460

<210> 5121
<211> 479
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-B12
<400> 5121

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tcgaagccca ctgggttcgg agctgatcgg tctctatttc tctcttcata catatctcaa 120
gcagataaag ttgatcggat actagaatgg gaggaggatt tagagttttg catttggtga 180
ggccattctt ggcttttctg cctgaggttc agagtgcga taggaagggt ccattcagag 240
agaaggttat ctacactgtc atctctctct tcatctttct tgtctgcagt cagcttcctc 300
tttatggaat ccattccacc accggtgcgg atccattcta ttggatgcgt gtcattcctg 360
cgttcaancg ttgaactgtc aatggaaccc cgtaataccc taatggtaca tccggacttg 420
tnaatcaact cctggctggg ttcaanatta atgaaggtna caacaatggt cctnaagga 479

<210> 5122
<211> 473
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-B2
<400> 5122

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tatagaagaa gtaatctctc tttttctcta tttctctgta ttactttctc tttttttttt 120
cgtgatggag aaaaacacac cggatgaggaa accacacatg tcgacggcgg atctactcac 180

ttggccggag aatcaaccgt ttgagtctcc cgccgccgta tcttctcgct ccgccgccag 240
atcgaccag ccgtcggatg gaataagcaa agtcgtatct ggaggacaag ttacagatga 300
agaagttgag agcttgaaca agaggaagcc ttgttcaaat tacaagatga aaagaagatn 360
acanggaatg ggataatccc tgtggtatga agaaaattga tgantctgan nttagcaagt 420
ggctaaattc cgccaacaaa anggnaaatc caagaacttt caagcaacca aca 473

<210> 5123
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-B4

<400> 5123

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aacaaaaacg atggagatga tgaagattga tcctttattc gatcgtgcca gtgagcttaa 120
agctttcgat gaaacgaaaa cgggtgtgaa aggactcgtc gactccggag tttcacaagt 180
tccacgcata tttcatcatt caactgtcaa attatcaacc ccaaaaccac ttccctcgga 240
cctgctacat ctcaagacga tcccaacgat cgatctcgga ggacgggact tccaggacgc 300
gattaagcgc aataacgcga ttgaagagat taaagaagca gcagcgaagt ggggtttcct 360
tccaagtgat taancatgga gtttccgctt gaacttcttg agaaagatga aaaaaaggan 420
tcgtgacttc caacg 435

<210> 5124
<211> 300
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-B6

<400> 5124

gtaccanact gcaaattcgc nggtccaccc acgcntccga ncacgtggcg tcaggctctt 60
gtccgagacc anoo 120
oo 180

nnnnnnnnnn nnnnnntgtc tgtcaatggt ttggattcnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngggcg 300

<210> 5125
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-B8
 <400> 5125

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 aagatcaagg cagcatatca gtttttcctt tatactttac ttggatctct ttttatgcta 120
 ttagctattc tggtgattct tttccaaaca ggaaccaccg atttacnggt attattaacc 180
 acagaattta gtgagcggcg ccaaactctt ctatggattg cttttttcgc ctctttcgcc 240
 gtcaaagtgc ctatggtacn agttcatatt tggttacctg aagctcatgt anaggcacct 300
 acggcaggat ccgtcatctt ggcaggaatt cttttaaaat ttggaacctt cgggttttta 360
 agattttcan taccatgtn tcncgaagcg acactttggt ttactccttt canttatact 420
 ttaaagcgcg antgctanaa natatacgtc cttgaaccac tttaagnca a 471

<210> 5126
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-B9
 <400> 5126

cnggcgtccg cacacgcgtc cgaccgcgac gaatccgtcg gaaaccggaa tcaccatgga 60
 ttttcctccg acgaagcttg attatcatgt agacatgttc aatcttcagt ctattccag 120
 atttctctcc ttatttaagg cgcaagatgg acgcatagct ctaatactag aatcaacggt 180
 gtttcatcca caaggtggtg gccagccgtc agacaccggt ttaattgttt tctccggttc 240
 ggatttgaaa ttttcggttc aagatgttcg atngaaagac gggattgttc cccaatacgg 300
 ggttttcnaa aggtccaatc ctgaaanttg gaattgatan tgagaaangg aaaagaattt 360

tacttaactg nttatgaatc aangngtta actccantcc aagtttcact cacttggnca 420
cttgc 425

<210> 5127
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-C10

<400> 5127

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actcagtggg gaaaatggag aatcaagagc ctgatatcga gaaattgcct cgagacgatg 120
ttcctgatag agaaccagac cataagaagc tcaagatttc gaccaccggc caggaaactg 180
attcctcggc tgttaccacc ggcggaagca atgtcgtga gcgtagagcg ccgaaataca 240
gacgccggaa agtcgcaatc gtgtttgcgt tctgcggagt agggatcag ggaatgcaaa 300
agaatccccg cgccaaaacc attgaaggcg agctcgaaga ggctttgttc catgccggag 360
cagtacctga tgctgatcgg aacaaaccan gaanttacga attgggcaca ttcgggtana 420
acggntaang gattaattcc ggtggganaa ttggttcggt gccntttcaa gttgggtccc 480
cnggattttg gg 492

<210> 5128
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-C12

<400> 5128

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acaagttatt ttcaaaagat gatgcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtcgta ttggtgttac 180
agttgtacac gattcatcag cgtttgggaa gatcaagacg caaacgctgg agtcttatgt 240
ccttattgca acggtggatt catcgaagag attgaagatt cttctaattc caccgtcgcg 300

gcgattccgg cttcgactcc ggaagttaga tcggttgagg aaacacatag atctataatt 360
agacgtcgta gatctaatacg ccggacgtcc tttaatccgg taatcgtctt acacggcgga 420
ngaagaagga gganccgggtt aaaaaattt 449

<210> 5129
<211> 419
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-C5
<400> 5129

naaaaaggga aaattaccag acaagagtnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngaaaatcta gaagaagaga aagctacaaa 120
aatctcaaca tcgagtttcc aatttggttc atgcaggtaa gagttttggc tacagagcaa 180
ccatgctaac ttgcgccttc tcccaaaatc ttatccacta atctcggtaa ggaaagtgat 240
gttggcaaaa tgggtgaagaa aggaanttgg ttttctgcta tcaaaaagggt ttttaaatcca 300
nattccaaag agaanttagc caatcangaa acagagagaa agantggnaa annaanagaa 360
naaaaaangt tttngggaaa ctnaaggnat ggggaagacc aattcaattt ctcccanct 419

<210> 5130
<211> 437
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-C6
<400> 5130

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tttcgccatg gaagacgacg gcaagagcag ccccaagtta ccgatccctg naaagagaaa 120
tatactaatac accantgctt tgccttacgt caacancgtt cctcanctcn gaaacatcat 180
cggntgtgtt ctgancgctg aggtgtatgc tagatactgt cgtctccgtg gctataatgc 240
gatttacata tgtggaacng atnaatatgg gactgcaact gagaccanag ctttgggagg 300
gagaattgca tncnnaaagg anatctgtga cnagtaccat gccattcata aaagaagttt 360

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atgactgggt ttgggtataa nttttgacaa agtttggggc aaaattnaan tccaagacaa 420
gactgggggg tgtgccca 437

<210> 5131
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-C9

<400> 5131

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caacgcggtt cagatccgag tttgggagat tcaagctccc tgaaaaaagc cctttactct 120
cgcttaccaa ctttgctcca gcatggcagg atctgcacca gaaggcacac agtttgatgc 180
acgtcagttt gaccagaaac tcaatgaagt acttgaggga caagatgagt tcttcacatc 240
ctatgatgat gttcatgaga gctttgatgc catgggtctt caagagaacc ttctcagggg 300
tanttatgcc ttaatgggtt ttgagaaagc cttctggcaa tcaacaaana aggaaaccgc 360
cccctccggt aagggccttg angttaatca acanggtcaa ttctgggaat ggggaaaaca 420
acaacttttc tggcccggng ttcttgcaac aaactggaan tncnccctta accaatgtca 480
agg 483

<210> 5132
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A7

<400> 5132

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tgaagaaggt atgtcgaaaa aggagattgc tcttcagcaa gcacttgatc agattaccag 120
ttcatttggc aaagggtcca taatgtatct cggtcgtgct gtttctccta gaaatgtccc 180
ggttttctct accggatctt ttgcccttga tgtagctttg ggagttggtg gccttcctaa 240
ggggcgtggt gtggagatat atggtcctga agcatcggga aagacaacac ttgctcttca 300

tgttattgca gaagcacaaa aacaaggagg aacctgtgtc tttgtagatg ctgagcatgc 360
tcttgattcg tcacttgcta aggcaatcgg tgtaatacaa naaatctgct tcaacacagc 420
tgattgtggc naacaaggc 439

<210> 5133
<211> 430
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-C4
<400> 5133

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tgtgctgatt gagccaacaa gtggaaacac tggagttggg ttagcattca cggcagctgc 120
caaaggctac agagcttatt attacaatgc cagcttctat gagtactgag agaagantca 180
ttctcttagc ttttggagtt nagttggttt taactgacct agctaagggc atgaaaggac 240
tatccaaaag ggcngaagaa atttggcgaa acaccantgg gthaatncct caacaatttn 300
nggaacctgg caaacctaaa gttcactatg anaatncggg aactgaaaaa tgggaaagna 360
ccgggggcaa atccaatggc nttgttcggg gaattgntac tgggtgtacc aattacaggt 420
gctgggaatt 430

<210> 5134
<211> 410
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-007-Q1-E1-C7
<400> 5134

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cgctaccaga ttggtccaga ccagattgag gctttgtacc agtacgcaa gtttcagttt 120
gaatgtggca actattctgg tgctgctgat tatctttacc agtacaggac cctgtgctct 180
aaccttgaga ggagtttgag tgccctgtgg ggaaagctcg catctgaaat attgatgcaa 240
aactgggata ttgctcttga agagcttaac cgtctcaaag agattattga ctcaaagagt 300

ttttcatcgc cgtaaacca ggtgcagaac aggatttggg tgatgcattg gggctctgtat 360
atctttttta accatgataa tggaaggaca cagatcattg atctttttta 410

<210> 5135
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-D11

<400> 5135

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tcatcgtctc ttatccatcc ctcttaacac agatctctca aactctcatc tcttctcttc 180
caccttctgc aaccttcgac gtcgtctgtg gtgttcctta cactgctctc cctatcgcca 240
ctgttgctc tggtttccaat ggtatcccta tgcttatgcg gcgtaaggag attaaagach 300
atggaacatc taaagctatt gaangaatct tcgaaaagga tcaaacttgt ttgataattg 360
aagatcttgt aactagtggg gcntctgttc tcgagactgc tgctctcttc gtgctgtggg 420
gt 422

<210> 5136
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-D5

<400> 5136

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catcggagaa tcttctctc cataggaaaa tgcgtctaa ttccctgagg catgtcgagt 180
ccatgtccca gctaccctca ggtgccggaa agatctctca attaaacgcc gtcgtgttag 240
gagaatccct tgcacggag gagaatgatc tcgtcttcc cagcaaggaa ttctccggcc 300
aggctcttgt ttctccct caacagtaca tggaaatgca taagaggtcg atggatgacc 360

ctgctgcttt ttggtctgat attgcgtctg agttttactg ggaaagcana aatggggtga 420
ccaagtgttt cc 432

<210> 5137
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-E10

<400> 5137

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acgtgagtggt attccctaaa gaatccgacc tctacatcgc cgcaaccacc gttgacttac 180
gtgtacctcc cggatccatg gcggttctag tcaagaatct ctacttatct tgcgatcctt 240
tcagccgcat tcgcatggaa aaacccgacc cttcgtcacc tgcttccgtc gctcgcgctt 300
actctatcgg caagccaatc tctggatttg gagggtgtaa agcaatagat tcatgtcatc 360
caaattacaa aacaaggaga tttacttttg ggaagagttg gatggggaag agtatagtgt 420
tattactcca actccttctt cacatttcaa gattcatcac actgatgttc c 471

<210> 5138
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-E12

<400> 5138

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agagagattt tggcgtatca tccacagatg ttgcaagagt atctacaagg agaagagaac 180
ataaactcnc antttctata cccaagcgga gttgatcagt tcaaacaaga ntttgcccga 240
ctcnaagaac acaacgacga tgaagaggaa cacaactccc caccacatca gagaaagtac 300
acgtcactcc ctatagaacg ggtgttgctc atcagaagac nanngttctg attcagttca 360

tgctcaatcg tcttcagctt cngntgggtgt ttacaccctc cacaggactc cancacacag 420
cnaacgggct tatcat 436

<210> 5139
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-E3

<400> 5139

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gaaagagaaa gcgagattct aaaatctaatt ctcgtgcttc caattcaaata aattttgtct 120
ccttagcggga tcgatcgtag attataaagc tccgccgtcg cctccgccgc aatcgacggc 180
gggtgtctacg tcgctttcgt ttcgtgctga acaggaggag cagcagcaaa ataagtcagc 240
ttaagtaacg ccgtctttga tttgacttga gataagtatt ttggtgatat ggcattgatg 300
atgtttccgc atttgctcga cggtgacgaa aagtaaaatg ctggcgaatt ggaagaaacc 360
acatacagat tgatgctctc ttcaatcgac tcntttgtaa atttgttgaa acttacgggg 420
tcnaaagggtg tgt 433

<210> 5140
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-E5

<400> 5140

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tcaataagac ttgacgtaaa ttataaagat ctctggacaa gtcctatctt gtctctttgg 120
aaagcttcta ctacttttga aggctttttt tgtgaatctt ccgtttggcc gtggctgtgt 180
tgatgtgtgt gtctgttttt tttttttgtc tgcatactt ttgtcaaaaa tgaatgctct 240
gttttgggtct gaaactgaga tcttgagtca gatttttttt cattatcaag aagattactg 300
ataaaanana naaanganga nnaaaaaaaaa aaaaagggcy gcnnccctcca aaanggattc 360

atgggaaaat naatgg

436

<210> 5143
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-F5

<400> 5143

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ttggatcttt acaacttttag aagaatttgc cctgacacaa aggtatatgg aattattggc 120
aagcctgtca gccacagcaa atcacctatt gttcacaatc aagctttcaa ntcanttgat 180
tttaatggag tatatgtcca cctgttagtt gataatcttg taagctttct tcaagcatac 240
tcacctctg atttcgctgg attcagctgt acaattccgc acanagaagc tgcattgcan 300
tgttgtgatg aagttgattc attggcaaag tctataggag ctgtgaacnc tanacnaaag 360
gncaaaaang tgaccngnaa gttgttgggg ttacanca 398

<210> 5144
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-G11

<400> 5144

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gaaaaaaaaa gatggttagga agaagaaaag ctttactctt ttctctctgt ttcttcttcc 120
tcnctcttcc ttcttctnct tcccttccat ccttccaaac cctattcccn aattctcatt 180
cccttccttg tgcttctccc gtctcattcc aaccngactc cgactccgag tcaactgctag 240
aatccgaatt tgaanccgga tccgactccg agtctctctc ttccattact cgaaaactng 300
angacatcga tgctcnctcc tccaacataa canngacga gctattcagc tcnctcncc 360
aacgtgactc ccggcgctg aaaatctatc gccacactcg ccgctcaaat ccccgggaaa 420
gaaacgtgac tcacgcgcca cgaccgggtg gattcagnaa gctcagtcgt c 471

<210> 5145
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-007-Q1-E1-G2

 <400> 5145

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ttaaagccag atggggtgat tctgttctca gacattctca ctccattgtc tggaatgaac  180
atacctttcg acattggtaa agggaaaggg cccatcatct ttaaccgcc tcaatcaagc  240
tgccnacgtt gcccaaagtt aaagaattcg tancaaaaga atctgttcct taatgttggg  300
naagcantca aaangantaa gaaatgangt gaacaatgaa accgctgttc cgggaattgt  360
tgggagctcc aattacanct tcctccgaag ttaatchnaaa ngnggtccan cnaagaactt  420
cacaccngat taaa                                     434
  
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<210> 5146
 <211> 231
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-007-Q1-E1-G5

 <400> 5146

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acatgatgtg gtcgaaatcg ttgactttgt cagctctatg taacataacg ttgtctcgat  120
atatgtggca accaaaaata tgttttatga aataaagtgt tctcaaatg tttatgaaga  180
acatttcgtc tttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngggc g          231
  
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<210> 5147
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-007-Q1-E1-G7

<400> 5147

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ccataactct agcctctata ggaacagggtg ggacacgggtt cacattagca actgctgggtg 120
cgaaccagta tgaaaaaact aaagaccaag gaagctttttt caactgggtt ttcttcacaa 180
catatctagc cggagctata agtgcaaccg ccattgtcta caccgaagac aatatcagct 240
ggacccttgg gtttgggtctg tctgtagccg ctaatttctt cagttttttg gttttcgtct 300
cggggaaaag attctacaag catgacaagc ctttggaag tcccttcaca agtctactat 360
gögtcatttt cgcagcatta cgcaaaagaa aagctgtggt ttccaccaac gaaaaagact 420
accacaat 428

<210> 5148

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-C1

<400> 5148

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tggttaactt catggtgaaa acacacaatg aaaggcttag tcgtttgctc gttgcgataa 120
ccgtaccgtt actgtaccgt ggcttccggt acagcctctt tgatttcaat ggtgaaattc 180
tccggaggat caatgaacca tcactccatg gatatactga tacaacgact tcttgctgcy 240
gaactggatc gagaaatgca tacgggtgcy gttatagtaa cgtgcatgct aagctctgca 300
gctaccanaa atcatttttg ttctcgcagc ggcgtcacia caccgagaaa accgatgaaa 360
gaagttgcta atccgtttta atcccgaga caaacatgct gtcctccga tgaatataaa 420
aggatctcgt aggtaaa 437

<210> 5149

<211> 449

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H7

<400> 5149

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taagtaataa cgттаagcat gaggttaacg atgatgctgt cgaagaacga gggттаagta 120
cgaaggcagc tagagaatgg gggaagtcaa aggtttttgc tacttcaagt ttcatgcctt 180
cttcagattt ccaggagggt aaggcgtttc cgggtgcata ccagtgggga tcagtttctg 240
cggccaatgt tttccgcaga tgccaatttg gtggtgcgtt tcaaaacgcg acgccgcttt 300
tactaggcgg ttcagttcct ttaccaactc atccttctct tgttcacga gtgggcttcc 360
tccggatcat cctcctcaag ctcaaatcc ttttatggcg gnactataag cntccttaat 420
gacatatctc cccgataagg ctcaancca 449

<210> 5150

<211> 470

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H8

<400> 5150

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naggagatca aatgatgctt gttcgatctg 120
tatttcgata tcagttgcga nctctgtct cgggtggtct gcaatcggct tcttgctatt 180
cttcattatc tgntgcttca gctgaagctg agangactat cagagaangt cccagaanch 240
attggagtac agatgaaatc aagtctgtnt atgattctcn tcttcatgac ctctcttctn 300
atggaactca ggttcataga catgttcata acttcacgga ngtaacanan tgtaccctcc 360
tctccataaa gactggtggt gtatgaagac ngtcatantg tcctcagtct cgagatatan 420
cactggactt, aaggcacana gaccatgtcn aagacgtgtc attgatgcgc 470

<210> 5151

<211> 638

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H9

<211> 482
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-007-Q1-E1-A11

 <400> 5153

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 tcannanact cggctgcaaa aaancaaaan tgagctctca aatctgcana tctgcttcca 120
 aagcatgcc aatctcttct ctcgttcagc taaaaatgct cgcttcttct ctgaaggacg 180
 agccantggg gctgcagcag cggtttcggc gtcaggaaaa attcctttgt atgcatctaa 240
 ctttgcacag atcatcaggt tctgggtgtg cttctaagag ttgggtcact ggacgcttat 300
 gctentcctg ctgcaactta tatgattcaa gatcaatgan gttcttgcn gctnagatgga 360
 acganccttt attgctanca agcctgatgg tgtgcaaaga gnactgatat cagagatcat 420
 ttcacgattc gaancantg gattcaaagc taagttggta gcaaaatcaa tgttcctct 480
 aa 482

<210> 5154
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-007-Q1-E1-A12

 <400> 5154

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 aagtgtgca gaactcaagc tatcttcagc aatcattatg gccggagtgt tatgtttcct 120
 anctgcctta atctcgagcg cangtggaat cggcgggtgga ggtttattca ttcctatcat 180
 gactatagtt gcagggggtg acttgaaaac cgcgtcaagc ttctctgctt ttatggtaac 240
 cgggggatca attgctaatt taatcagcaa tctctttggt ggtaaagcat tgcttgatta 300
 cgacttagcc ttgcttcttg agccttgat gcttttagga gtaagtattg gtgttatctg 360
 caacaagagt tttgcctgaa tggctcatca ctgttccttt tcgctgtgtt ccctcggtt 420
 ggtccaanct tgaagaantt gtanaanntg gagtcaantt tggaaaactt tg 472

<210> 5157
 <211> 422
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-007-Q1-E1-A6

 <400> 5157

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 cttggagcaa tgggttttgg catggcagca cacctgttga aatcaaattt ttctgtctgt 120
 ggttatgacg tatacaagcc aacacttgtc agatttgaga atgccggggg attggcggca 180
 aattctccag ctgaagtgc gaaagatgta gatgttcttg taattatggt aacaaacgag 240
 gttcaggctg aggatgtctt gtatggacat cttggagcgg ttgaagctat accatctgga 300
 gcaactgttg tacttgcgtc aacagtatct cccgcgtttg ttagccaact tgaaaggcgt 360
 ctagaaaatg agggaaaaga cctaaagnct agttgatgcc tcctgtgtct ggtggtgtca 420
 an 422

<210> 5158
 <211> 414
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-007-Q1-E1-B11

 <400> 5158

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 caagtgtacc agatgctgtt ctatggtgtg atgttcagct aaccaaagat gctcttggtg 120
 tttgcttccc tgatttaaca atgagaaatt cttcatctat tgaagctggt taccctactc 180
 gacaaaaatc ttacccggtt aacggagttc ctacttccgg ttggttcacc attgatttct 240
 ccttgaaaga tctcaaagat gttaacttga tccgaggtat tttatctcgg tcagaaaagt 300
 tcgatggtaa ttctaaccg attatgacgg ttcaaagcgt atccacgcag atgaaaccat 360
 cattcttctg gttaaagtgt cagcacgatg cgttctacgc gcaacacaat ttga 414

<210> 5159
 <211> 425
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-B12

<400> 5159

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gagctcgaag aaggagaata tgggtttgag aactgataat attatggctt cgtttcgagg 120

tggaatcggg gtttctaata gctgagtcaa ctcggtgatt ctgtgttata gtcacgagca 180

aataaaaaa agtttgtaac tttcttggtt ttttaggtgt gtgtgttcag agaaaagggtc 240

gaatcttttt tcggtgtttg taaaagggaa agttgtaatc ttaaagtctg tttttctttc 300

ttgtgttttg ggtatttaac tcataaaagc cgaaggagta atataaagga tangttttgt 360

ctttgtgtgc ccttttgaga ttgcatgaag aaaaaagcc tcantgtgtt ttgaangaaa 420

cagaa 425

<210> 5160

<211> 432

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-B4

<400> 5160

gagaaaaacga gaggcaaggg tcaggcataa tatgctctct cactagccta agaatttgta 60

gaagcgaaaa ccatggatta gggtttttca gtttctctt tcaatcgatt aaccacacaga 120

acaaagtatc tcttaccttc gggtttagat attctcttcg tctccgtcta tatatcattt 180

ctcaaagtcg acttacgaat ttgactcagg agatatttcg tttgtgattt tgttaaggct 240

agcttcaatt ctattcanat taatcaatgg attctcagaa tgctcgtggc gccttggaca 300

atcccttggt gggggattaa gntaccctt angngcgcgt tttgngggtc ctaaggngaa 360

ctccaataat gaacaatgct tggacttcac nagggtttgc tcaaggccgg angttgagca 420

tatcnttctt gg 432

<210> 5161

<211> 429

<212> DNA

<213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-007-Q1-E1-B5
 <400> 5161
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 ttaaagtttc acccaaaccg agaaaagaga gaatctgtgc atgttgctca gaaaatcttc 120
 aaagcgtaat ctgggcttac gttagctctc acgaaccccc aaggatcttc natatatggt 180
 ttttcatttc ccataaaaat ctttcattat ctaaaaaata ttattatcgt atcttttttc 240
 ttctatatat tcttcctcct caatcttgat tcttgtttct tgagtattct ttgatgaatc 300
 gtgaaatgac gtcaagcttt cntctcctga cgttcgccat atgtaaaactg atcatagccg 360
 tgggtctaaa cgtgggcccc agtgagcncc nccgcatccg gagccanaga tgtcgacggg 420
 caantcaac 429

<210> 5162
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-007-Q1-E1-B9
 <400> 5162
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 tttagattct ttttttctca tatctctcct tgatcctctg ttttttattc tgagggttgt 120
 tttcggagaa ggaatcacct aaaccctttc aaatctcttc ttctaccaaa tatatttttt 180
 tggatgaaaa aaacttctac caaattctca gattttattt ccttgagggg tttgtgtttt 240
 ttttgcattg tctaagttga tttctgaaat ttaagtatat cttgttttac ataatataga 300
 aaaaaattat tgggtgtttt gtgtgtttat aatttatctt gggatcaatga taatagtggg 360
 cgacgagtcg gtgtcttaag ggtttacttt ttgtaaagaa aatttcctgt tgaataatg 419

<210> 5163
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-006-Q1-E1-H6

<400> 5163

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gtcttcttcc atttcacgc tgctgagttt gactctgcga gtcctcgtgt tctgagtcaa 120
ctcgtgaggt cgacttttcc ttcgttgaac tttaaagtct acatttttag ggaagatacg 180
gtgatcaatc tcatatcttc ttogattaga ctagcttttg agaatccgtt gaactatgct 240
cggaactatc tcggagatat tcttgatcga agtggtgaac gagtcattta tcttgactcg 300
gatgttataa ctgtggatga tatcaciaag ctttggaaaca cggttttgac cgggtcacga 360
gtcatcggag ctccggagta ttgtcacgcg aacttcacca gtattcactt ccgggttctg 420
gcagacccgg ctt 433

<210> 5164

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G1

<400> 5164

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cggtacttc atccatcgt ccttctcttt catgccatc tccttcttct tcatcaaaa 120
ccctttggtc ttccaaagcc agaacccttg ctctaccaa tatcggtttc ctctcgtctt 180
cttccaagtc tctgaggtcg cttactgcca ccgtcgttg aaatggcgcc actggatcct 240
cccttgccgc tcgcatggtt tcttcgtctg cgggtcaaagc ccctgtttct ctcgattttg 300
agacatctgt cttcaaaaag gagaaagttt ctcttgcttg ttaacaaaga gtacattgtg 360
agaaggaaga aagagactgt tcaagcaatc tcccaaatg ctttcaaagg ggaataanca 420
agatttggtg ttaantggct ggggggattt caaggacct g 461

<210> 5165

<211> 429

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-G11

<400> 5165

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gaccggaaaa gacactgtga gaacgaagct gtggaggaac cagagccaaa acgaagactg 180

aaaaaagata actcacagag ttcagattct gtctccaaac ctggaaagaa aaacaaattc 240

gtagtacacg cagctggtga tgttggtatc tgtggtgatg gatacaggtg gcgtaaatac 300

gggcagaaaa tggtgaaagg aaatcctcat ccaaggaact actaccgatg cacttcagcg 360

ggatgtccag ttctgtaaac acattgagac agcagtcgga gaacacaaaa gcagtaataa 420

tcacataca 429

<210> 5166

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G2

<400> 5166

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gtgggaggac gcgtgggtgt aaatctctct ttgaaggttc ctaactcgtt aatcgtaact 120

cacagtgact cgttcgagtc aaagtctctg tctttagctc aaaccatggc tagtaacaac 180

cctcacgaca acctttctga ccaaactcct tctgatgatt tcttcgagca aatcctcggc 240

cttctaaact tctcagctc ttctgccgcc ggtttatctg gagttgacgg aggattaggt 300

ggtgaggcac cgctatgat gctgcagttg ggttccggag aagaaggaag tcacatgggt 360

ggcttaggag gaagtggacc aactgggttt cacaatcaga tgtttccttt ggggttaagt 420

cttgatnaag ggaaaggact gggtttctta gacctgaagg aggacatgga agtgggaaaa 480

gatctcagat gatgtt 496

<210> 5167

<211> 444

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-G3

<400> 5167

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tagctcgtgt gagagaaggg tgtaatgagc tgttttgggt ggtgtgggag tgaggatttt 180
cgcaacgcta ctgacactgg cccaaggcca gcgcataacc cagcaggtta caatggaggc 240
cactaccaaa gagctgatcc acccatgaac cagcctgtta ttcccatgca gcctatttct 300
gtaccagcca ttccagtggg tgagctgaga gatataactg ataactatgg tcaaagacct 360
tgatcggcaa gggtttcta ggaagattgt ttaatgggtg cctaaaaacc gtgtgcaact 420
gcaacaagaa cttgacccta gtaa 444
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<210> 5168

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G5

<400> 5168

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aaataaaatt aattaatgtg agaaaatcaa ttcaaaaatt tggacatacg tatcatctga 120
gagaagaagg gtttggtgaa taccggcggg tggaaccgac ggcgatggcg aagaccggtg 180
ttttcgattc ggatccgacg gcgattgcta aagccaagga actgaagcgt gagatgaaga 240
agttgctgat taagatcgat gacgaagatg atttgggtgt tcagacgatt gatcagttac 300
aggacgcttt gtctgcgttg agagaagcga cgatgaggaa gatggcgaaa atctcccccg 360
ttagagaatg ctccaagact gtgtcttggn cctgaaggag ttccgttggt cctccccccn 420
aatgaacctt atgaagggat tccgtcgttt tgggctcc 458
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<210> 5169

<211> 441

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G6

<400> 5169

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gctctcaaag ttcagatcct acctaagcac cagtcattgc cctacacagt cacgaaggcc 180

aagtcgaaat cattgatcct gctagttgtc gtttccgtga ctatcacgtt aggggttatta 240

ttatatgttt tcaactcaaa ttctgttata tcttccggaa gtttgcttag tcggagatgt 300

aagctccggg acagcgctct tatcgacgca gggagttcan ggacccgggt tcatgtgttc 360

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<210> 5170

<211> 447

<212> DNA

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<223> unsure at all n locations

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<400> 5170

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ttagcctcta gactaataat aatcttctca ataatctcca catctttctt caccgttgaa 120

tcgattcgac tattccctga ttcattcgac gatgcatctt cagatttaat ggaagctcca 180

gcatatcaaa acgggtcttgga ttgctctggt ttagccaaaa acagactctt gttagcttgt 240

gatccatcag ctgttcatat agctatgact ctagatccag cttacttgcg tggcacggta 300

tctgcagtac attccatcct caaacacact tcttgccctg aaaacatctt cttccacttc 360

aattgcttcg gggtaaaaag tcanggggtcc ctccgcaaaa gaaccctaac ctccggtttt 420

ttccctcctt ggagtttcaa aagtcen 447

<210> 5171

<211> 436

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G8

<400> 5171

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ggtgctancc aaactgctgc ctgtggtatt gcaggaacat accctcaagt tgtttctctg 180
accaacggag attacttgaa cgtttcttgg acaatcggag gcggacacga tggaaatgga 240
gttggaccaa acacttgcag attcgttgg tctctttccg atacctctac taccgatttc 300
aatagccacg ttctcattga cggcctcaac tgctcaagct ggaaacaaat tcanatcttt 360
ccaagtcaac actgcagtga ctactccatc tactgcttac ttgcaattta natngtccgc 420
ctggtgaatg gnggtg 436

<210> 5172

<211> 434

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G9

<400> 5172

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cttctaattct tcaangggat cgacgttaat ggcggtccg gcgccggagg angaatgtac 120
gtgaaggatga tgaccgatga gcagtatgaa actctcagga aacagattgc tatttacggc 180
accattttgtg agcgtcttgt tgagatgcat aaaactctca ctgctcaaca agatcttgca 240
ggatggagaa tgggacgact atatgcagac ccaatgatgt catctttagg tcataagatg 300
acagcctaga cagaaggatg actcctacgc cantccaagc ttcaagantc ctgggaacgt 360
tataattccg attaaaggca cngggaaaca acctaagcaa agcaagaaag atttaanaga 420
cattaccaga aaga 434

<210> 5173

<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-H11

<400> 5173

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cgaatccttg agagattgag agggacaagc gagttttgac ccaaggattg ttgacgggtct 120
atattgaaca agtaaacaag gatgcgtaag tggatctggt gtacatgtca aatagaagac 180
tcaaataag agcaacaact gaaaagttca cagcagcaat ctgatgcaaa tcataagaat 240
tcaaaaccag cacctgttgc aaaacatgag gttaagaagg aagctcttcc catcgaggtc 300
cctcccttgt ctttgggatg aggtcaagga aaagactgaa aattttgggt tcaaggcact 360
gattggtgaa gggctctatg ggagagtata ttatgcgaca ctaaatagat gtgtggcggt 420
tgctctg 427

<210> 5174

<211> 478

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H12

<400> 5174

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acactctaaa acaaaaccat gactttgttc catagactcg atctcatcga tccgtacacg 120
tgtacaccac tcatcgctcg tgaaacctcc attggtgaac cttcatcatt gttcctaggg 180
tttccttctt tcatcgacga agacattgaa gatctcttcg agttttcatc acctaatact 240
ctcgatctat tcgaaaccgt gacggatctg gttaagatta agaaatctcc gtcgtcttgc 300
aagtacaagg tgattcgtcg gagattagag ccggagtatc cattgaaagt atctttgtga 360
ccgtgttctg atttggaatc aagtttgata nattggtaat cctaagagtg ataagaagta 420
tacattgaca aaggagataa agggaaatgg tgaaaggaat ataaatggga aggcggan 478

<210> 5175

<211> 505

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H3

<400> 5175

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aaaacttttg aattagcttt acctccatct ccaccgtctt tagttccttc ttttaactac 120
aattccaccg cacgaagcgt cgggaatgat gtcagaacca acttcgatgt tcaacttttt 180
ctaaggaaac ctaaacacca aaaatcagaa cctgtcgtcg ttattcaaca acctcagatt 240
caaccgcaaa atccaagttc tcgttggtct acttctgata ttctcagact aatggattct 300
ctttctttac caggaaacga agatatttac tcttgcttg ccaaagaatc agccagagaa 360
aacgatcaac gtggagctca cgagctacaa gtgcatatca tgaaagtcca agtantaaga 420
cccacgatta actttaanca atcgtcctcc ttggatgca tgtttccgtg tggggcgttt 480
aagatattac acgccaagat gtccc 505

<210> 5176

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H4

<400> 5176

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ccggtctcgt ttacttcaaa caagggttta ggggtttcat ctaccacttt ctaccaatgc 120
aaagcttgta actttgaggt atacatggct gcttctgac aacaccggtc tcgccgtcac 180
gacgagagct cttcaagacc caacaagaag aagaaggtaa gcagaaacc agaaacaaat 240
ctcctcttca atctcaattc atgctccaag tccaaggacc tctcagctgc attagcactt 300
tatgatgcag ccatcacttc cagtgaagta cgtctcaacc agcaacattt tcaaacgctt 360
ctgtacctat gctcaacttc cattactgac atatctctc aatacttgcc aattgaccgt 420
ggttccaaga ttt 433

<210> 5177

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H5

<400> 5177

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tcacctaaac acaacttctt gaaaaccaat ggatcaaatc gaagcaatgt tgtgcggcgg 120
aggagagaag acaaaagtgg cggttactac gaagactttg gcagatccat tgaattgggg 180
tttagcagcg gatcaaatga aaggaagtca tttagatgaa gtgaagaaga tggtcgaaga 240
gtatcgtaga ccagtcgtga atcttggcgg agaaacactg acgatcggac aagttgctgc 300
catctccacc gtaggaggca gcgttaaggt tgagttagcg gagacttcaa gagccggtgt 360
gaaagctanc agtgattggg ttatggagag catgaacaaa ggtactgaca gttacgggng 420
tca 423

<210> 5178

<211> 485

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-F9

<400> 5178

ctgttacgcc ngcccgtacc ggtccaaaaa ntcccgggtc canccaagcn tncgnnnaaa 60
naattccccg gctttaaatt ncaaattngc ccgatnnat ncanaattaa natnccccnc 120
tncgttttgg ttttnccttn ggattcaaaa gtcctctta aatcctggta aatcaacaat 180
ggcccgccac cactgagaat ctccctcaac tcaaatccgc cgtcgatggc cttactgaga 240
tgagtgagag tgagaagagc ggattcatca gcctggtttc acgttacctg agcggtgagg 300
cacaacacat tgagtggagt aagatccaga ctctaccga tgaaatcgtt gttccctacg 360
agaaaatgac cctgtctccc aagatgttgc cgagaccaag aatctgttgg aaaaacttg 420
ttgtgttgaa gcttaatgga ggtcctggga acaacaatgg gatgcactgg gcccgaatc 480
cgta 485

<210> 5179

<211> 444

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-E8

<400> 5179

gacacctgtt tacaatctct tctctggcta tcttagaggg atttttgatt gagatttta 60
aatcttctga gttggattag ttggttgga aagagatgga tccggatacg gtgaagtcga 120
ccctctcgaa tctggcattc gggaaatgtat tggcggcagc tgctagagat tataaaaagg 180
aagttcttgc aaatgaaaag gcacaaggat caagacctgt caacgaggaa gttgatcttg 240
acgaattgat ggatgatcca gagctagaaa agnttgcacg cagataggat tgcagcactc 300
aggagagaaa ttggaaaaga gagaagcatt caaaagacaa aggacatggg gaataccccg 360
gaaattaacg aaaggcgact ttcttgggga anaagtccca aaggagttga aaaagttata 420
tgtcacnttc aacacaaagg agtt 444

<210> 5180
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-F1

<400> 5180

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaaagactct tncnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnaga tggggaaaagg tgagagtggg cttgancttg 300
gtctaaggct gagtcatggc ggtggaacng ggggcaaaga ttggtaaata aagtgggtgg 360
nngngcnttg gggaaaacgt tgnaaggcct tgacggcaaa gatttctctg gttt 414

<210> 5181
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

gctcttctcc gttcatcttc cggtagatct gccgccaat tagtcaaccg aaaccccagg 60
ctt'ccttctc cttcaccgc gcgtcacgcc gctccatgta gctacctcct cggccgcgctc 120
gccgagtatg cgacctcttc accggcaagc tctgctgcgc catcctctgc tcttgctaag 180
gatgagggga aaaagaccta tgattacggt ggcaaagggtg cgatcgggcg tgtttgtcaa 240
ggtcacggt gccattgtca tgtgagattc gaggatcagg aaggattgcc tccgatnatg 300
acatctcctt gaaggttaan gattaacca aaaagggctg gtggctttaa ggtgtcccaa 360
tcaatttggg tcaaaatggt cttaaaggaac aattgctaata gggatggtaa tgaaagggtcc 420
ttgtccgttg gaaaggnaag gttccaaaca ctggg 455

<210> 5186
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-G11

<400> 5186
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tgttgatctt gagccaactg tgatcgacga ggtcaggact ggtacttacc gtcagctttt 120
ccaccctgaa caactcatca gcggtaaaga agatgcagct aacaatttcg cccgtgggtca 180
ttacaccatt gggaaagaga ttgttgacct gtgcttagac cgtatcagaa agcttgctga 240
taactgtact ggtctccaag gattcctcgt cttcaacgct gttgggtggag ggactggatc 300
tggctttgga tctctcctcc ttgagagact tctgttgact aagggaataa gtccaaagtt 360
gggtttcaca gtttaccat ctccacangt ctctacctcc gttgttgagc ct 412

<210> 5187
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-G12

<400> 5187
gccacgcgt ccgcagattc tgaaaacaaa gttatgtcct aacaagacga cgaatccgat 60
gtggaacgaa gatcttggtt ttgtagctgc agagccattt gaagaacagt tcttcttgac 120

ggtcgaaaac aaggtgacac cagctaaaga tgaagtcag gggaggctga tctcaccttt 180
 gagcgtatatt gagaaaaggt tagatcacag agctgttcat tccaaatggt acaacctcga 240
 aaagtttggg tttggggctc tggaaggaga caagagacac gagctcaagt tctccagccg 300
 aatccaccta cgagtttgcc ttgaaggagg ttaccatgta atggacgagt caactctgta 360
 catcagtgc gtgaaaccta cggcaaggca actatggaag tctcctaag gcacacctga 420
 a 421

<210> 5188
 <211> 440
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-005-Q1-E1-G2

<400> 5188
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 acggtgtaca cactcaggtt gcaccaaagg agcagaagga agcacgccgt tctgtaaagg 120
 acatggagga ggtaaaagat gtgcctttca aggagatgat ccttgctcca agagtgttca 180
 cggaggtacc aatttctgtg tggcacatgg cgggtggaag agatgtgcgg ttcccgaatg 240
 cacaaagagt gctagaggaa gaactgattt ctgtgtcaga catggtggag gaaagagatg 300
 tcagtctgaa ggctgtggca aaagtgtcga aggtagtacc gacttttgca aagcacatgg 360
 agganggaaa aggtgtgcgt ggggtcaacc cgagactgag tatgcgggac agtcttcttc 420
 tggtccttgt acctcgtttg 440

<210> 5189
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-005-Q1-E1-G3

<400> 5189
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 ttgagtcatt caatttttcc atcactgggt ttttctctct gaatccgatc ggagaatcca 120

gtcgattact aatctagcgc tctctttttt tctactcgat gacttatcac gaagaagacg 180
 atacagtttc tgaatttcga gttagagttg aagaagatgg agttgataaa ttaggtcatt 240
 atgttaaact tactgaagat ttcgaagtac atcgacaaga aacagaacaa gaatccttca 300
 tcatcaaccg tcttcctcct tccntcaatg tgggacaaga aaaccgattc ggtttggggg 360
 tttgggattt aaaaaccctg ggnccntttt ccntcnacnt ttttcaaaan nggcnntttg 420
 ggggtccncc gcctgggggt taacaaaaaa tggggnnnaa naaaccctt ttaaaatcca 480
 angggggg 487

<210> 5190
 <211> 403
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-005-Q1-E1-G4
 <400> 5190

gggaacttga aaagagtgat tgtgcagcct tgcgtaacaa tctttagta gcgatgacag 60
 acttttgtgt tcaactataca gccatgattg agtgttacat accgaagatt actaaacgtc 120
 ttcgggatcc ttgtgaagtt gttanaaggc aaaccttcat acttctctca aggttactac 180
 agagagacta cgtgaaatgg agaggagttc tcttccttcg attccttcta tcgctagtgg 240
 atgaatctga aaagatacgt cgacttgcag actttttatt tggagcatc cttaaagtaa 300
 angcgccact tctaacctta caacagtttc ttggaagcca atttatgtcn taaacgactg 360
 ccaagcccac actgggcata ataatccaag nttctaaca atc 403

<210> 5191
 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-005-Q1-E1-G7
 <400> 5191

gggccggggt cgattggcag tttacaaaaa gaggtatatt acatataaaa gtggatattt 60
 tccatgataa gtgaacatgg ccaattcntt acgagganaa gtattgaatc tttataagaa 120

tctgctgtat cttggacgag actatccaaa cggagcagnc tanttcaaaa ggcgtctgaa 180
naangttttc cttaanaaca annatgtgaa ggacccatag aagatcaagg aacttattga 240
aaggggcaaa tttgtaactg aaagaactag aagcattata cttccttagg aaatacagan 300
ctatgaaaca acgcnattac tcagatacca acaaaactaa atgatcagta ttactatcat 360
ttgactgaag atcattgcca nctgtttatg tncagctat gacaaaaata acatttacag 420
tgtcaan 427

<210> 5192
<211> 440
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H1
<400> 5192

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ttaagaaggt gccatcttct tactgaccac gcaattcaaa agctggcatc aagtctcaag 120
ctggagaatc ttgacctcag aggggtgcaga aacctgaggg atgaaacctt gacagctgta 180
tctcatctgc caaaactgaa ggttttactt cttgatggcg ctgatattag cgacacaggg 240
ctttcgtacc taaaagaggg agttttggac tccctagttt ctttatctgt cagaggggtgc 300
agaaatttaa ccgataaagt tcaaggtcaa cttaantttg acgggttctc aaaaactggg 360
cgtttgcggg aactccaact ttgtcctaact cctcccaaact ccaacnggtg ctggcaattt 420
tgctccaaca aaatcctggg 440

<210> 5193
<211> 430
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-E7
<400> 5193

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catcttcttc ccaaaacat tcattcgtct ctaggctcct ccttctcctt actctacttc 180
cagtttcctt tgcttgtctc gcctttatcc tccaatggcg ancggtggt ctcgccgatc 240
ctgcctctgc ttctgttcgt tctctacgt cggttcctgg cggctccgat ctcaatcacg 300
aagtctttcc cggcatggag actgtttcat ctgtctcccc aaagtctcac caatcctcct 360
ccgactgctt aaatctagct cgcagctctt ctcttctntt tccttaatat gctgaatgga 420
agtttggtgt 430

<210> 5194
<211> 407
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-C11

<400> 5194
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aaattcaatt ttcccagat ttttgtttct ctcgatcgat tcaacaccta aagattgaag 120
cttttgctcg tgggttatgt aaagtttcca cctttcgtct tctttctgat ctgtgagcaa 180
aaatgggaca acagcaatca aaaggggaat tgctgtatca gcaagttagt tatggtaact 240
ctgaaggaat tcgagctctt catcgagatg gtggagacct tgagtggatg gatagagaag 300
gaaaaactcc gttgatcttg gcttgtatga actccgagct atttgatgtt gctaagactt 360
tgattgagtt gggttctaata gttaatgctt ancgctcctgg tcgtcaa 407

<210> 5195
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-C12

<400> 5195
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actctggaga ggacttcgtt cacatcgatg accctaggcc taccggcgat atctctttaa 120
gcgacagcat agttaatgtg gagaaggatg aactgctcga cgaagcggcg gaggaagaat 180

ttagaggctc cgattctgtg ttttagcggcg gcgatggcgg tggagcggat gatgatggcg 240
 gcgagtgttc atcggaggct actaaagtgg agctaccgga ggaattggcg aaaagtgttg 300
 tgattctgac gtgcgagtca acagcggatg gtggatcttg cgatgtgtac ttggttggtta 360
 ctgctcatgt atcaaagcaa tcctgtcttg aagttgaaag caataatcag catcttga 418

<210> 5196
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-005-Q1-E1-C4
 <400> 5196

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 atggagagat ctatgttcag ctcaaagaaa gtgtagagg ttgcgatgtc tttttggtgc 120
 agcctacttg cactccaact aatgagaatc tcatggagct attgatcatg gtggatgctt 180
 gccgaagagc atcagctaag aaagtcacag ctgtgattcc gtattttgga tacgcaagag 240
 ctgatagaaa gacacaaggg cgtgaatcta ttgctgcaa attggttagca aaccttataa 300
 caaaancccg gtgcaagata agggctctgg gcttggtatn ctcaatcaaa ggacaatcca 360
 tgggttaatt tgacatacca atgggatnat gtccaantgc caacctggtg atacttgatt 420
 aacntgcta acaaagtcaa tttccccctg aa 452

<210> 5197
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-005-Q1-E1-C5
 <400> 5197

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 cactccttca cacactcttc accttctcca tctccctcac tcacaattca accgtcctct 180
 ctctctatc tccttccgtc gcttccctct aacaaccatc aaatacactt cnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngca 300
 agtacttctc tcacctaacg gtactgggtg ctgtgaagtc tgatgagaga ttccgttgtc 360
 gctacggcgg gttacgactg atagtctggg gattgagggt tgatactgtg aaggggaagct 420
 gagcttaang gagaatgg 438

<210> 5198
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-005-Q1-E1-C6
 <400> 5198

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 ggtcagggtta tcaacttgcaa agctgcgggtg gcttangagc cnaacaagcc tctggtcac 120
 gaagatgtgc aagtggctcc acctcaaact ggtgagggtc ggatcaagat cctcnacact 180
 gctctttgtc acaccgacgc ttacacttgg agcggcaagg atcctgaagg tctctttccn 240
 tgtantctag gtcattgaggc tgctgngatt gttgagagtg ttggtgaagg agtaactgaa 300
 gttcaaaactg gagatcatgt tatcccttgt tatcaanctg agtgctcgtga atgcaanttt 360
 tgcanatctg ggaagacnaa ctttgtggca angtganatc tgctactggg tgttgggaat 420
 atgatgaatg accgtaa 437

<210> 5199
 <211> 415
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-005-Q1-E1-C9
 <400> 5199

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 tccaaccacc accgtcactc ctctcccggt tgccactcca ccaccgccc caactcccgc 180
 tccgaccacc actccaccac ctgcccgtctc cctgcccc accctctctc ctccgtcttc 240
 agctccttct ccgtcgtctg atgcccctac cgcttctcca cctgcaccgg aaggtcccgg 300

agttagcccc ggcgaactag ccccgacacc ttccgatgct tccgctcctc aactaacgcc 360
ggctttaacc aacaaaagct ttcgtcgtcg gttcacttgt cgccgcgatt aatta 415

<210> 5200
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-D12

<400> 5200

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna aaatggctga 120
accaatcacc aaggagcagc ctctccacc tgctccggac cctaattcca cctaccctcc 180
tccgtccgat ttgattcca tctgatccc tccgtagat gatcatttct ccgatcagac 240
tccgattggt gaactaatgt ccgatctggg gtttcccgat ggtgaattcg agctcacttt 300
cgacggtatg gacgatcttt acttccctgc tgagaatgag tcgtttctca tccctatcaa 360
tacgtcnaat caagaacagt ttggtgattt cactccggag tctgaaagtt c 411

<210> 5201
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-D2

<400> 5201

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cgtaacatgc aaagatcaga gattgatagg cgtatgcaag atgatatcat agcggcaaac 120
cgtctatgct tgggaagccg tgcttggcga aaactaatc gttacttggc agagatgcga 180
tgcttttttg ggccttttgg agatggaata tgcagtcttg aacgcgtttt ctggaaactt 240
gattctatgg aaagcttttc gaggatgaga cagtctataa ggaggaatta ttctgggact 300
gatcatcacg gggcagcagc agattatgac gatcagacag aaacaaaaag tgataatggt 360
aacaanggtt ctcaatcaaa tcctccctgt tgttgctgct gaaagtaata ttaatggaaa 420

442

<400> 5202

<400> 5203

2544

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tgttcaaaca tatantat 498

<210> 5204
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-D5

<400> 5204

gctgttttcc ttgttctcca agccagatct ctctccataa atctctcttc atctctctct 60
ttccacaaa catccgcgat cctcgattct caattccgtg tctgtttttt ttcttcactt 120
agcgatggcg atgatagagc aaaggccgaa gacgaagatc gtttgtactc taggtccagc 180
ttccagatct gttccgatgg tcgagaagct tcttagggct ggtatgaacg ttgctcgttt 240
caatttctct catggatctc atgaatacca tcaagagact ctcgataatc ttcataaagc 300
tatgcttaac actgggattc tctgtgccgt catgctcgac accaaggggt ccaagaaatc 360
cgaancgggt tcttgaaaga tgggaaacca atccagctga aacaaggaca agagatcact 420
atttcgactg actnt 435

<210> 5205
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-E1

<400> 5205

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aaggccttga ngatatcgng caaggtcntg gntgcatggg tctctctgct ttctacggta 120
ctcccaagcc ggnaaccgaa gctatcgctc tcatccacca cgccattcac tccggcgta 180
ctttccttga cacctccgat atctacggtc ctgagaccaa cgagcttctc ctcancaagg 240
ctctcaacga tggggtgaga gaaaaagtgg aacttgcgac caaatatgga atcaggtatg 300
catatgggaa agtagaattt tangggagat tctgcttang taagaaactg cgttttgaan 360

ggctaatttt aatgccaagt aaatgtttgc ctgcaattga ttncnctaan taatcaagca 420
atccgaaatt tggtaactcc ntggccccct attc 454

<210> 5206
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-E3

<400> 5206

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tggcatggtc gtaaagactc tcctctcgaa gttgtgtgac ttaacgacag tgggtggtgtc 120
aagaatgcat ccacttgct taagtatgac tccatgcttg gaaccttcaa ggctgaagtg 180
aaaattgtgg acaatgaaac tattagtgtt gatggtaagc tcatcaaagt tgtctccaac 240
agagaccctc ttaagcttcc atgggctgag ctcggcattg acattgttat cgagggaaca 300
ngagtgtttg ttgatgggcc aggagcaagg aaagcatatc caaanccgga gcctccaaaa 360
gttatcatca ctgcancaac caaangtgct gatatcccta cctaagttat gggaatcaat 420
gagcaaagac ta 432

<210> 5207
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-E5

<400> 5207

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ctcctttaac ccttgatcat caccgattca atcaattcgg aatcacaatt tcaaactcgag 120
agaatttcaa tttctcttgt aaaaccctaa attatgtaca gcaatttcaa ggaacaagcg 180
atcgagtacg tgaagcaagc ggttcatgaa gacaatgctg ggaattacaa taaagctttc 240
cctctataca tgaacgcgct tgagtacttc aaaactcatc tcaagtatga gaagaaccct 300
aagatcagag aagctattac ccanaaattc accgagtatc tccgtcgtgc tgaggggagat 360

tcgtgctggt ctcgatgaan gtggatnggg tcaagatcta acngtgatgc aagccgtcgc 420
aacganggcc aaaaa 435

<210> 5208
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-C10

<400> 5208

gcacaaacat ttttcttgaa ttcagagttt ttctgatcaa aagctccctc tctctctcac 60
catggatccg agactacaac atgctgctga aaccggaagc atcaatgact tttatgctct 120
gattgaggag aatccttaca ttcttgataa catcaatgcc gtgccatttg ttaacactcc 180
gtcccatgta gctgcagctt ctgacaacat tccatttgcc atggagatgc tgaatcttaa 240
gccatcggtt gccagaaagc tgaacacaag tggctacagt ccattgcac ttgctgtgga 300
aaaagatcat agagagttta taacatggct gctttggcgt gatcccgac ttgttcgcgt 360
taaagggaga gaaggaatca cacctttcca tctcttagcg attagaggag acgtaaa 417

<210> 5209
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-H4

<400> 5209

tagctnctca gggtcacaan atcncgggtc gaccacgcg tccgaggana ctctctggtc 60
agagacggcg atgattctac gccgatgggg tttccttcaa gttgcggaaa cagcncngt 120
gactaaattg ttccgaanga cgacgacata cngantttcg tngtntctcc tctgctaant 180
acttgctgan cttctctcat atgctcttgt ctcaaagca aatcctcca agaaactact 240
cagattgaac agttggggaa tggagaaggg ttctcagttt tggcatcaga gattccatgg 300
gaggatgata acatatggag cacatttgct ctttacatgt tctctctgca tattcctctc 360
agttttgggg gtttatccat tgttgccaan atactccacc ggcaggttct tgatcctcaa 420

acncaagtgc tatcacttgt ggttctccaa aaggtanaaa tttc

464

<210> 5210

<211> 422

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-004-Q1-E1-H5

<400> 5210

gctaactctag taaatagaca aagaaaacaa catggctgat tctaagatga agctccactg 60

tggctttatc tggggtaatt cggcagctct cttttgtatc aatgagaaag gtcttgactt 120

tgagcttgtc ttcgtagatt ggcttgctgg tgaagccaaa accaaaactt ttctctctac 180

tctcaaccca tttggtgaag tcccggttct tgaagatgga gatctcaaac ttttcgaacc 240

aaaggcgatc acgcgatacc tagccgagca atacaaagac gttggaacaa atctattacc 300

agatgatccc aaaaagagag caatcatgtc gatgtggatg gaagtagata gcaatcaatt 360

tcttctata gcatcaacac tcatcaaaga actcatcatc aatccatatc aagggttaan 420

cc 422

<210> 5211

<211> 457

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-004-Q1-E1-H9

<400> 5211

gnaccgggtcc agaattaacg ggtcgacca cgcgtccgan ttcctcatct tcttggtgaa 60

agtaatggca agactcacga gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnc gacaagagct atggaggcaa acttttcccg ggttattacg cccattcatg 180

cccacaagtc aatgagatcg tgagatcagt tntagctaaa gctgttgcta gagagacacg 240

tatggctgct tccttggtga gacttcattt ccacgactgt ttcgttcagg gttgtgatgg 300

ctctttgctt ctagacagca gtggaagggt agcgactgag aaaaactcaa accctaacag 360

caaatcaact cgtggggttg acgtanttga ccaaatcaaa gctgaactgg agaaacaatg 420

ccctggaact ggtttcttgc gctgatgttc ctaaccc

457

<210> 5212

<211> 488

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-A1

<400> 5212

ttatcngcca ggccccggtc aagnaanceg gggccgaccc acgcgtcngc tcagatctga 60
gaannnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnaaacia 120
caatggcgac accaggagct tcctcagcaa gagatgaatt cgtatacatg gcgaaactcg 180
ccgaacaagc agaagcgtta cgaagaaatg gttgaattca tggagaaagt cgcgaaagct 240
gttgacaaag acgaactcac cgtcgaagaa cgtaatctcc tctccgtcgc ttacaaaaac 300
gtcatcggag ctgcgtcgtgc ttcgtggaga atcatttcat cgattcgaac aaaaaggagg 360
agtctcgcgg taacgatgac cacgtttcgt tgatccgtga ctacaagaaa gcaaaatcga 420
aaacgggact ttccngatat cngtgacggn atccttaaan cttctcgata cgaattcncg 480
ttccccgg 488

<210> 5213

<211> 428

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-A2

<400> 5213

tgaaagatgg tttttttatt ctcaaggaga agtttcgaaa agggatcaat cctcaggaga 60
aggттаagat cgagagagag cccatgaagt tgtttatgga gaatggtatt gaagagcttg 120
ctaagaaatc tatggaagag cttgatagtg aaaagtcttc taaagatgat attgatgtta 180
gactcaagtg gcttggtctc tttcacgta gaaagcatca gtatgggaag tttatgatga 240
ggttgaagtt accaaatggt gtgactacaa gtgcacagac tcggtattta gcgagtgtga 300
ttaggaagta tggтgaagat ggggtgtgctg atgtgactac tagacagaat tggcaaattc 360
gtggtgttgt gttgcctgat gtgcctgaaa tcttgaaaag tcctgcctct gttgggttaa 420

cgagtctc

428

<210> 5214
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-A3

<400> 5214

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agtcccaatt ccagcaaaat tatcaatcga ntttctgac aactgagcgc gacggtggtg 120
gcgacggtgg tggcgacggt gacagcgatc gacggttatg gcttcgaaga ctaaaactag 180
tttgtccgaa acaacaaata ctactactcc taccgggaaa tcctctccag caactccaag 240
aatagcaaan agaacagtta ataaatccga aactagtaat aataattctc atctactact 300
actccacatt cacgtctttc tcttgatcgt tctctccaaa ttccaaatct tccggttgag 360
agangatnac caangcttca actcctcctg agaaatctca agcgggnagt acaagcgggtg 420
aaaaggaaca g 431

<210> 5215
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-B1

<400> 5215

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agcactatga cgaggctacg gaggatagct gcagccgcaa gctcgaagct gctgtttcga 120
aatgggatga gactgatgct atagtcgtct ctggtgccaa gcttacggga agcgaagtac 180
ttgataaaga tgcagtaaaa aaaatgtttg ctgtaggcac agcttctcta ggacatgtac 240
cagtgtcgtga tgtgggcccgt ttttccagtg agattgctga agctcgtcta gcacttttcc 300
agaagcaggt tgagatcact aagaaacatc gaggggatgc aaacgttagg tatgcctggc 360
ttcctgcaaa gagggaagtt ttatcagcag tgatgatgca aggacttga gttggtggag 420

cattatcaag aaat

434

<210> 5216

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-B12

<400> 5216

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gggagaaaat ccgataccat ctgagatttc caacagtgaattaagatgt caacaggaat 120
atccactgat ctacacgtcc attttggagc tctgaatttc tcaaaaacct acaaactctgg 180
tttaagcaat cgaacggtgt ctttttcgag agtcgggtat gtcagaaca ggaaattgag 240
ctgcagtgtt tccaacacag agaatgtagc tcctaaggat gatgaaagag gaaaggatag 300
acctttggtt aagatgtgtg gcatcacatc agccagagat gcagctatgg cagttgaggc 360
tggtgccgat ttattgggat gattatttgg ccacattcaa aacgatccaa ttctc 415

<210> 5217

<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-B3

<400> 5217

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gcgtgtgctc tctccaaagc tatagcagag ggcattgctc ttggtactga tataggcgag 120
gcgaatctgc tcaaacgtta tgaagcagag agaaaacctg caaatatagc aatgatggcg 180
gttttagacg gaatccagaa gatctactcg ttggatttcg gaccgctgaa tgctctaaga 240
gcagctgcat tccacggggc tcactacatt tcgccgtta aaaagcgtat catatcttat 300
gcttcaggag agcaatcttt gccgctatct tcttgaagaa tgcaaggat tgttcgcttt 360
gttctcaaaa tactccgcat catctcctcc ttgccctaa atagaaattt aatgggggact 420
gaaaaca 427

<210> 5218

<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-B5

<400> 5218

atttgcccg n ccaggtgcaa gtaaaccgggt ccnggcnggc nccccaannc aaananattt 60
tttttctg n caaaaattcg tntcaaaatt taacatattt tttttattat gagaacaaat 120
cctactactt caaatccaga ggtttcgata cgtgaaaaaa aaaacctggg acgtatcgcc 180
caaatcattg gtcgggtact ggatgtagcc ttccccccgg gcaaaatgcc taatattttac 240
aatgctctgg tgggtaaggg tgcgatact cttgggtcaag aaattaatgt gacttgtgaa 300
gtacagcaat tattaggaaa taatcgagtt agagctgtag ctatgagtgc gacagatggg 360
ttaaagagac gaatggacgt ggttgatatg ggaaatcctc naagtgttcc agtcggcgga 420
gcgactctag gacgaatttt caacgtgctt ggggaaccgg ttgataattt agtctnata 479

<210> 5219
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-B6

<400> 5219

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ctacttcttt caaacaatgt cgtccagata ttgatcagtg gttgcttttt ctttcgagga 120
acgggattaa ggagcttggt ctttaagttag gtgaaggaga attcagggtt cctgcatgtc 180
tctttaactg tttgaaattg acctgtttgg agttatgtca ttgtgagttt gatccgcctc 240
agtatttcaa aggggttttcg tatctgaaga gtttaaacct tcaccagatc cttgttgctc 300
ctgagggttat tgaaagtctg atctcaggat gtccgcttct cgaagttcct gtcttgtcta 360
actttgacag ttgggttttg agtataacaa ctccgaatcc catgtacttg tacnagacn 420
ggcgaattca aagac 435

<210> 5220

<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-B8

<400> 5220

gcgcaaaatc atttgcacgt tctacgcaac tccataattt caattcctct cgacgtttca 60
cggcgaagct tcagatctac ttttccccag ctacgtatgg agacggttga ttctcggaac 120
aaattgcatt cccggttacg tttatgggaa ttccccgac agtacatcat cgagccagct 180
gatggctcag gctcttcatg tttggatatt angtcgtgtt gatgcttcca tgaagctcat 240
cgatcaagtc ccagaaagca attccgtgcg tgccctaaa atccgttcca tttttggtgt 300
ggttgggatg ttgaagctcc ttgcaggatc atacttggtg gttgtaactg agagtgaacg 360
tgttggatcg tttctggggc atcctatatt caagagttac aacgcttaag gttcttctt 420
gtgatattca cttaaaa 437

<210> 5221
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-C1

<400> 5221

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tttcccctgc taagtctaca tccttcaaga acgtagctg cagcgtcct cagtgtgaagc 120
aggtaacaaa cccacgtgt ggagcacgcg cgtgctcttt caacctcacc tatggaagct 180
cctccattgc ggctaacctc tctcaagaca cgatactct tgccgccgat ccgatcaaag 240
cctttacatt cggatgcgtc aacaaagtcg ccggtggagg aaccatcca ccacctcaag 300
gcttggtggg cttgggacga ngcccacttt cactcatgtc acangctcaa tctatttaca 360
aagtccactt tctcttactg tttgccaagt ttcaaggccc ctgaacttct ccggttctct 420
canactccgg ccctaactcc 440

<210> 5222

<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-H12

<400> 5222

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tttgaaggag gacttgagag tgcagacaga ggaggtactg ttgatgaaga agatgttgaa 120
ggggattggg gtgaggaact tgacattaat gttgatggaa tggagaacat ccttctctct 180
tcctctaccc tcatttccac cgccgatgac ctagacgacc tctctctctt ccaccgcgcc 240
gtcgtctctt cctccaccaa caacaaccgt cgtctcatct ccctctctcc aaatccaccc 300
ccaaagatcg ctttctctt cctaacaaac tccgatctaa ctttcttacc tctctgggaa 360
agcttcttcc aaggtcacca agatctctac aacgtttaca tccacgcaga ttcaacctcc 420
tccgtctctc ctcttctcga ttcttcatca atcaacgcta aattcatccc gggga 475

<210> 5223
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-D4

<400> 5223

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tcntgcttac tgttttctact ctttgatgac tttgttcagg ggttagggca cagctaagcc 120
ctgacattta tgctaaatcg tgccccaatc tagttcaaata tgtccgtaaa caagttgcca 180
tcgccctgaa tgccgagata cggatggctg cttctctcat tcgtcttcat ttccacgact 240
gctttgttaa tgggtgtgat gcgtcgttat tgttgatgg agctgacagc gagaaactcg 300
cgatcccaaa cattaactct gctagaggat ttgaagtaat tgatacaatc aaagccgctg 360
tgggaaacgc atgtcccgtt ggttgttcct gggccgaaaa cctcaacttt gccgccnga 420

<210> 5224
<211> 486
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-D5

<400> 5224

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ttgacaaggc tcgaacaggc atactgtggg aatattcgat ttgagtatat gcacattgca 120

gatcgagata aatgtaactg gttgagagaa aagattgaga caccaactcc ttggcggtac 180

aacagggagc gccgtgaggt gattctcgat cggcttgcac ggagtactca gttcgagaat 240

ttcttagcta ccaagtggac aacagccaaa agatttggac ttgaggagg agaatcatta 300

attcctggaa tgaaggagat gtttgacaga gcagcagatc ttggagtaga gagtattgtt 360

attggaatgt ctacagagg aagattgaat gttctgggta atgttggttc gaagccactc 420

cgtcagatat ttagtgagtt cagtgggtgt attangcctg tanatgaagt tggctacact 480

ggaact 486

<210> 5225

<211> 435

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-D6

<400> 5225

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gatgcatgcc atcgttgggt ttccttttca tgcgagggga ttaagtanga ctactacat 120

gatgagctgt cctttcgctg aacagattgt gaagaacagt gttaacaatg ctcttcaagc 180

cgatccact ttagccgctg gtcttatccg tatgttggtc cagactgtt tcatcgaggg 240

atgtgatgcg tcaattctgc tanattcaac gaaagacaac actgcggaaa aggattcncc 300

tgcgaatccg antcnaagtt ggtaacaaga ttatccattg attcnaangg gnaaaatcna 360

gaatanatgt tcaaagantt tgnncaagg nccagttaaa nttgccaatg gntggcaaaa 420

natgcggtct ttttg 435

<210> 5226

<211> 418
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-D7

 <400> 5226

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 ggcgttacaa aacaaagaag aagagaaaaa gaaagtgaag aagttgcaaa agagttactt 120
 cgatgttctc ggaatctggt gtacatcgga aagttcctat aatcgagaat attctcaagt 180
 cacttgacgg cgtaaagaa tattccgtca tcgttccttc gagaaccgtg attgttggtc 240
 acgacagtct cctcatctct cctttccaaa ttgctaaggn actaaacgaa gctangttag 300
 aagcaaacgt gaagggttaa cggagaaact agcttcaaga acaaaatggc cgannccnt 360
 tcgccgtaat tttccgntt aaatnncct ccnancctt cccaaaattt gtccaaan 418

<210> 5227
 <211> 424
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-D9

 <400> 5227

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 gaactcaaag atgttgcagg aggaaaagtt aaccaggcac atcttgatcg tgccaaggca 120
 gccacaaaat ctgcagttct gatgaatttg gaatctcgga tgattgcagc agaagacatt 180
 ggtagacaga tacttacata cggagagagg aaaccagttg atcaattctt gaagtcagta 240
 gaccaactaa ccttgaaaga cattgcagac ttcaccagca aggttatctt aaagcctttg 300
 acaatggggt cctttggaga tgtgttggtt gttccgagct atgacacaat aagcagcaaa 360
 tttcgttgaa gcaaaacaaa caatttgcca aatcaacaat attttgggac ntgttaaata 420
 aaga 424

<210> 5228
 <211> 432
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-E2

<400> 5228

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tcagatgaca gatggagttc ctccgccacc agagcaaagt tcgtagacc accgggattg 120
acgagcttga gagacaagaa agagatcgat gattggcttc cgataacttc atcgagaaac 180
gcgaaatggt ggtactccac gtttcacaac gtgactgcca tgggtggagc tggcgctcctt 240
ggtctccctt tcttcatggc ccaactcgga tggggaccag gcatagcagt cctgatacta 300
tcattgntaa taacacttta cacgttaagg caaatggggg anattcatga naatgggtcc 360
cgggaaaacn cttnttccc aacaangaac ttggccattt cncatttggc aaangtcttg 420
gcctttaaaa aa 432

<210> 5229

<211> 425

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-F12

<400> 5229

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gttcgagttc gtgacaatng gctacgacaa ttacatggaa gtgngaaaa aaatccgcaa 120
agtcgtcaaa ttccacagct tgattctctc tcaacccaac cacacaatcg caatctctct 180
tctagacacg ctgcctcgtc gtctaggtct cggcttcaag caacacgaac caggtgcttt 240
tctcctcaag ttcccacacg tgtttgagat atacgagcac ccagttcaaa gaatcctcta 300
ttgtcgatta acccgtaaag ctttgatna aatccgtcac gaacacgaag ctgttctcga 360
ccaaataccc gacgccgtga cccgggttga ggaaactcgt tatgatgtcg aatacgggtc 420
ggttc 425

<210> 5230

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G11

<400> 5232

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cacggtccng aaatccgggg tcgacccacg cgtccgaaca ngcgtccgtc tcaatgttca   60
aagaaccgtc aaggacttaa tcgcagcagg tgctgctggg tgcttccttg aggaccaggc  120
atggccaaag aggtgtggac atatgcgtgg caaagagggtc atacctgcgg aggaacacgc  180
tgctaaaata gcatcagcaa gagacgctat tggagatgct gacttttttc taatcgctag  240
gactgatgct cgtgcacttt ccgcaaaaac aggactttca gacgccattg accgtgctaa  300
tctttatatg gaggcaggag ctgatgcttc ctttgttgag gcaccgaggg acgatgacga  360
gcttaaggaa atcggaaggc gcacaaaang ttacaagact gtgtaacatg cttgaangtg  420
gacgcacgcc aattgcataa cncctgatga acttaaagaa atnggt                    466

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<210> 5233

<211> 441

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G12

<400> 5233

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naccaaagct tcgaaagacg cgtgggcgga cgcgtgggct gtggaggaat tgggtgagct   60
cgggtgggggt tcatgggttc tgaagataac tcgagaganc gagtgcgaagc gaaacaaaga  120
gaatgcgata gtgatactgc atactatatg tttcagcgac aggacaaaagt ggaaggagat  180
caaagaagag gagaatgctc atggaacgat aacaaagctt tcgcgtgaag gaacttcaag  240
ggcgcagagg aaagcaaacg ggatattgga cagactgaga aaagctatga atctcactca  300
tacagcctga gaaaagcctt gaaatctgca atgtaaatta cctaaaatct tgtttctttt  360
ttttacttta tttggctgta agaatttttg taaattattc atatcttang atctgaatgg  420
gtaatggttt cgtaaaaaaa a                                           441

```

<210> 5234

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G4

<400> 5234

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cgtntcggta ccggtggtgn tcncgggtcc ccncacgcgt ccgatagaaa gcaaacataa   60
attctctgac aatcagaaaa caaaaaaaaa tcagaacaac tcttatcttc ttcacgagac  120
tgactaaaca atcatagatt tttccgtttt ttgggtttcg tctggtgtta ctctctcctt  180
ctgagttatg gtgaaataat ggcagcagct gaagcaagag cagtgtggca aagaacagtt  240
aatcgttgct ttgtccaaga agacgctaaa agagctccca agttaactta ttgccaatca  300
tcttcctcct caactgcttc ttcaactaag caagtggaag tttctgggtc ttctcctcga  360
gtttctgttg aaccacggga ctcaatcctc ttgtgcaggn ttcaaggctc ttctcgaata  420
nccgaatttt cctgatttgt taccacacaac ancagactgt ggagtcaccc ca          472

```

<210> 5235

<211> 452

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G6

<400> 5235

```

ctccggggtc gaaccacgcg tnagacacga tccantgagc ancagcaact ccatctccgg   60
agctctagat tcagataaga acaatggcga ttccgatgcc tactcgccag ctattcatcg  120
acggcgantg gngagaaccc atcttgaaga agcgaatccc gatcgtaaat ccagctactg  180
aagaggatcat tggtgatatt cctgcagcta caanggagga cgtggatgtt gctgtcaacg  240
ctgctcgaag agcattatca aggaataang ggaaagattg ggccaaaagc acctggagct  300
gttcgtgcta agtattttacg tgctattgct gctaangtan atgaaagata ganggatctg  360
gcaaagctct aggcgcttga ttgtggtaaa ncantggatg aagcantatg ggatatggat  420
gatgttgcn g gatgttttga attttatgct ga          452

```

<210> 5236

<211> 428

<212> DNA

<213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-G8
 <400> 5236

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agttctagat cgcgagcggc cgtccttttt tttttttttt ttcaaaggtc ttcaggctaa   60
actttctgaa caggaaggta ttaattcaaa gcttgcgga gaactcaagg agaaggaact  120
tctggaatcc ttatcaaaag accaagaaga gaagctgaga actgcaaagtg agaagttggc  180
tgaagttttg aaagaaaaag aagcgcttga agcaaagtga gcagagggtca caagtaatgt  240
agcaacagta acagagggtct gcaatgaact agaagagaaa ctgaaganct caagatgaaa  300
attttcccaa aacaagatgg cctncttttc tcaagctttg tcaaacaact ctgagcttga  360
acagaaactg aaatcnctgg aggagcttca ttctgaanct ggntctgcag cancagctgc  420
tacccaaa                                         428
  
```

<210> 5237
 <211> 451
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-D10
 <400> 5237

```

tttcctcgc nctcaccgg tnganacn cgggcccgc acgcgtccaa agatattaga   60
acttgcaaaa aatggcttcc aaggctttga ttctgttang tctcttctca gttcttctcg  120
tcgtctccga agtgtctgcc gcaaggcaat cgggcatggt gaagccagag agtgaggaaa  180
ctgtgcaacc tgaaggttat ggcgggtggc acggaggaca tgggtggtcac ggngggggag  240
gaggccacgg acatggagga cacaacggag ganggggcca cggacttgac ggatacggag  300
gaggtggagg aactatgga ggaggtggag gacactacgg aggangtgga ggacactacg  360
gaggangtgg aggacactac ngaggangtg gaggacacta cggatgacgt ggtgncggac  420
acngangtng aggacactac ggangttgtt g                                         451
  
```

<210> 5238
 <211> 483
 <212> DNA

<213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-H8
 <400> 5238
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 cacagagagg aaaaaaaaaa aatggcgaca gattctcaac caaaccaaaa gctaacgctt 120
 ccgttaaaaa caagaatcgc tctcaccgtt atctccacca tgaccgataa cgctcaacgt 180
 cctgacggaa ctatcaaccg ccgtttcttc cgctctctcg atttccgtgc tcttcccaat 240
 cctaaacccg tcaacatcgt ctccacctcc gatttcgtcg tggatcaatc ccgtgatctc 300
 tggttccgat tgtacactcc acatgtctcc ggcgataaaa tccccgtcgt tgttttcttc 360
 cacggcggtg gtttcgcttt cctcagtcct aatgcgtatc cttacgataa tgtatgccgg 420
 agattcgcta ggaaattanc tgcttangtc atctccgtta actaccgtct cgctccggga 480
 gca 483

<210> 5239
 <211> 475
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-A12
 <400> 5239
 ccttccgcac gncaccggtc cagnaaatcc cgggtcnacc acgcgtccga ntgattatct 60
 tctcttcccc tgtaagtact ccgatctaata tatttggtcc tatcagacat cccccaattt 120
 ctacgatcgg atttattcgt cgatcaagaa gctggctaag ttgtattggt ggtgattgta 180
 tagtttttat tattattcga gagaatgaac agtagaagct gtatctgtgt ctctgcgatg 240
 aaaccctggt gtagatttct tattagtttt agaagttcct cgcttttcgg tttttctccc 300
 ccgaactctg gcaaattcat caattcgtcg aagttacact gtacaaagat tgattccaag 360
 aagtattaaa tctggatatca ttgccgtcgg attgggtccgg gatngggaag gcttttggtg 420
 aatcccgatt ccaataagct gggggaagag gaggtttaa agttttaana accta 475

<210> 5240

<211> 439
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-A4

 <400> 5240

 gaaagaccat tcttcaacgc cgctaaaacc ttcgggngga accgtttcnc tgactcnacc 60
 gcagttttcg ccgttggtcc cacatttctc acaccgttta tctccgcttt cgaaatgggt 120
 cgttctcttt aatggacctc tcttcttctc ttctctctct tggaaacttc tccagtctgc 180
 gacacctttg cactggcgcg gaaacggctc tgttttgaaa aaagtccaag ctctgaatct 240
 tagattggat cgaattagaa gcagaactag gtttccgaga cagttagggt tacaagtctg 300
 tggtagcaaa catattgacg gtggatngca acgattcaa aggaagaaag atgggtggga 360
 aaatttagtc aagaagtttg gttaatgtgc cgaatatgat atcaatgggc aagattataa 420
 ccnggtcctg tgctttggg 439

<210> 5241
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-A5

 <400> 5241

 gtaccggtct naaaaaaaaa nngggncccc acccacgcgt caganctacc tctactgtga 60
 agacgttgct gaggtttttg aagttgttct tcacaaggga gaagttggcc atgtttacaa 120
 tattgggacg aanaaggaga ggagagtga tgaatgttgc aaagacatct gcaaactctt 180
 caacatggac cctgaggcga acatcaagtt tgtcgacaac agacctttta acgatcagag 240
 gtacttcctt gacgatcaga agctcaaaaa gttgggatgg tcagagagaa ccacgtggga 300
 agaagggttg aagaaaacta tggattggta cacacagaac ccggagtggg ggggtgatgt 360
 ttctggagca ttgcttctc atccaaggat gctgatgatg cctggtgggc gacactttga 420
 tggctccgag gacaattcgc tggcagctac tttatctgaa aancaatca aacc 474

<210> 5242

<211> 463
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-B12

 <400> 5242

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 ctctctagtg aagtcttatt tgaccgggta ctgtttgtac nccatgggct gttaagcaat 120
 caccagccaa aatggctaaa gccaaaggcct tcctctaata aatcatccag agactttacc 180
 ttgtttgatc gcgatgcagc agagagctta cagaatgagc tttcgcggaat gcagttacca 240
 gacaccatta gatggcggat ccaagcagcg atgccaatcc tccttccttc tctacgctgt 300
 tctctctcaa gccancctca ttccgttccg ccaaacgcac tcaacacttt tcaaccctcc 360
 ggattcantg gccggctggc cggtagcaat caaaagnaana tcccctggca aaatcgaaaa 420
 aatttgaat gggangnanc aaacaagggg aaatttaaac ccg 463

<210> 5243
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-B4

 <400> 5243

 aattctagcc gtccgtacgg tcnngnttcc egggtcnccc acgcgtccga aantgctttc 60
 accannccac tcgacgggag tctccaacgc ctctctcttc attctccact ctacaccac 120
 caacttctga ttccagatct caacgatgca aagctccgcc gnatttccn tctctccgtc 180
 gttctctctc ctaaaaccac gtcggctctc tctccgccac catcccataa ccaccgccgc 240
 ttcttcaagc gatctaaacg tttctccaaa tgttgctctt attccttctt tatctcgctg 300
 atcttggcgt ctgcttctgt ctgattcgcc tctccgtgct tggtcgggtg ttccttctcc 360
 gatctctcac tccttagaca cgaatcgttt cagaaccgcc gctactgcaa ttcctgaaag 420
 tgctgaagga aggtgataac aagtgggaaa anttgacaaa gggttnggaa cttg 474

<210> 5244

<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-B5

<400> 5244

attatgaacn naaattcaaa ttcaactatg atcgaattct aaacacaatt atgaagtaac 60
gacgatgaac tcnangcttt gtcatttggg gacttcgatg gatacgattc gctgcgattc 120
cgntatcttc ngatctecta ctctctcttg tacactggga agacaagatt cgggtatctg 180
taacagtaac ttgaatctgg taagatatgg acaaaatcaa tggattgcct gatgatttgc 240
tggtgaagat tttatcgtat gttccaacgg atattgctgt atccactanc attttgtcta 300
agcgatggga gtttctttgg atgtggttgc ctaatctcga ctacattct cggtggtgta 360
gaaagcccgg tgacgttggg cttagggact ttatccacag gaatctgcca ttacatanag 420
ctcccg 426

<210> 5245
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-C1

<400> 5245

ngtaccggtg gtatctcggg cccccacgc gtccaaanag tttgtcagta ttggaactat 60
cttgatcttt ctggtaacat gttctctggc aagatcccgg tttcattgca gagtttgaag 120
ctaaaccagc tgaatctgtc ttanngggcg gttancgggt gacttaccgc cttctttagc 180
gaaagatatg tataagaata gcttcattgg gaaccggga ttgtgtgggg atatcaaggg 240
attgtgtggc tctgagaatg aagctaagaa gagaggctat gtatggcttc ttanatcgat 300
tttcgtactt gctgcgatgg tgcttcttgc ggggtgttgc ttggttctact caagttcagg 360
actttcaana aagcaaganc catgggagag atttaagttg actctaattg cgtttccana 420
anctcnggnt caatttagca ttaaaantcc ttgaa 455

<210> 5246

<211> 423
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-C12

<400> 5246

tccgtgaccc gttcaccgc cactgtctaca ccaacatggt tgatgcactc atggactcga 60
 catactcagc catgaaagct cttggatagc gtgatgttaa cattgtcgtt ggcganactg 120
 gctggccatc tgcttgtgac gcaccttgggt gctcgccctgc gaatgctgct tggttcaacc 180
 tcaacattat caaacgtgca caaggccaag ggacacctct catgcctaac agacgggttcg 240
 agacatacat tttcgggtctc ttcaacgaag aaggcaaacc cgggccgacc gcagagcgta 300
 actggggact tttccgagca gattttctccc cggtttacga tgttggtctt ctccgaaaac 360
 ggacaaggcg gtggangccg cccaacaatt gcccgacta atactgccgg cggttaatgg 420
 tgt 423

<210> 5247
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-C2

<400> 5247

cgtaccggtc aggaatcccg ggtccacca cgcgtccgaa acacgcgtcc ggnacaaaca 60
 actggaacaa ggnnaatggt nnaagttcaa anggaacatt acaacatggt tngtaagaag 120
 ggttcaaaca agttgtagac ttgcttcaag ggactcctta taatcagcag attgctaatt 180
 gctgcaaggg tgggtgttatg aactcatggg ttcaagacct tgccactgcy gctagctcct 240
 tccagattag tggttggtgct gctggaacca caaacaaaac cgttagggtc ccaagaaact 300
 tcaactctcat gggacctggt ccaagttaca cttgtggtcc aacaaaagat tgtcaagacc 360
 aacaaaattt gtcacgactg acacacgcag aancactcaa agctatgatg acatgggaca 420
 ttacntncac atactcncaa tttccttgcn caaanaactc caaanttgcc gggtttcc 478

<210> 5248

<211> 452
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-C3

 <400> 5248

 cncgggtccc ccacgcgtcc naaaacgcct ggggggtaag gtgatngata agataaatgt 60
 gtatgcattc ggcgttggtc tcctcgagtt actttcgga agaaaaccga ttagcagcgg 120
 atgtccaaag ggacaagaga gtctagtcac gtgggccaaa ccaattctag atgatggaaa 180
 gtattctcag ttattagacc cgagtttgcg ggataacaac aacaataatg atgaccaa 240
 gcagaggatg gcgttagctg ctactctttg tattcgacgt agtcctcaag ctagaccgaa 300
 aatgagcatc gtattaaagc tacttaaagg tgatgaagac acgcttgagt gggcaatgca 360
 ncaagtgaat agttcatcag aggagtcaga gatgctcaaa gatgagcaat gccaaagatc 420
 taacttgcaa tcacacctta acttaacact tc 452

<210> 5249
 <211> 277
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-C4

 <400> 5249

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 actaacacaa gaagctgaaa atgaaaagcc aaaaatccct cagatttgat gctttgcttc 120
 aaaccgcttg tttgaatttt caannctctc acacatgtat tagtaattta atcagcgagt 180
 gaaataatag agtttcagaa gagtaaaatg catgtgaata gntctgatta tttatggtaa 240
 tgtgagcatt agagttaaaa aaaaaaaaaa aagggcg 277

<210> 5250
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-C7

<400> 5250

ggttttaggt caccgtacaa agtcaacggt ttcagagcag tttaccgaag cgggtttgtg 60

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ggtgcgtagt ggttttggcc tttgacggtt tactttccgg tggagatgta tataagacag 180

aggaagggtt agagatggag tatgaagtgg gtttgtctgc agatgttgag ctgtggttgt 240

ttgatgatca cggttggtcgc cggagttggc tccatcgccg gagtaatgct agaccttaag 300

gtttacaagc cgttcaagac tacttactaa acaaaccatg atgatgatga agaagaagaa 360

gtggtggaga naaaaacann agatataaat tttaatatat ttca 404

<210> 5251

<211> 474

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-C9

<400> 5251

gccaccggtc catacaaccc ggggtccgacc angccgtccg aagaagacaa aagcatttga 60

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ccgggagtat tggtaaattg cacaagtttc ttgaatcaaa accgggtccg ggttcttgct 180

caagaacacc tctacttaac aagaaaaaac catctcatcg accgacaata acaacaataa 240

aaccggtccc ggtacgtgta tcaagagaag aaatcaccgg gaggaaaccg gaagctcggt 300

agattgctca agtttcttga atcaaaaccg gtctggttct tgctcaagaa cactgcaatc 360

gggttataat caaaaccaa ccgaatctaa ccggtcttgt cctgattact tcaagtggat 420

tcacgaagga tttaaaacca tgggagagaa acanggatta caaaagaaat ggng 474

<210> 5252

<211> 442

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H7

<400> 5252

gaatgtcttg cngccggtcg gganataacg ggtcgaccca cgcgtncgnc tnaaaacgnt 60
 naatggttnt ccctccgat nattagtctc tttaatcttt ctcagcctct tcttggtcgt 120
 gatctctctt cctccgaaa aagatgtcgg ccggtaacgg aaatgctact aacggtgacg 180
 gagggtttag tttccctaaa ggaccggtga tgccgaagat aacgaccgga gcagcaaaga 240
 gaggtagcgg agtctgccac gacgatagtg gtccgacggg gaatgccaca accatcgatg 300
 agcttcattc gttacagaag aaacgttctg ctctaccac accgatcaac caaaacgccg 360
 ccgctgcttt tgccgccgtc tccgaggagg agccgtcaga agattcangn ttcaatctat 420
 cagtgcactn gttagcatng ttaacgaaga gantcaggac caaanggtgg tganaggag 480
 atccggcnga gaata 495

<210> 5259
 <211> 451
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-G6
 <400> 5259

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 aggaaatcaa tagccagggtt atttctgctc gtgagaatat cagctcactt gagatggatt 180
 tggaatcatt gcataatttg attactggac tggatgggaa gttggacacg ctggaatata 240
 agcaggatgt cacaaatggt ttcatgctaa acttgtataa ctattttgga ggcaagagca 300
 caaagctgcc tgaaatggaa cagcttcagc ttctgtaaa ccaagagggc tcgtaatttg 360
 cttgcagatg ttgaaactaa agggctctgaa aaacttggct gaanaactgt tttaaaagca 420
 aatggcacac angtgacaac cacagtgaac c 451

<210> 5260
 <211> 440
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-002-Q1-E1-G7

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<400> 5260
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ctggcggttag tcatcaaagtg ggagctcggt gctcaaagtt ctcattctgc ttgttcctt 180
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cagacaacat tgtatcaaga acacggcgag aaagctccaa acgttgtcta cagaggaagg 360
cttgatgatg gtcgtttgat tgctgtcaaa cgattcaatc gccttgcttg ggctgattat 420
ccacaatttc cggatgaaac 440

<210> 5261
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-H12

<400> 5261
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ctgacaccat cgacaacgtc aangccaacg atccaagaca nagacggtat tcctccggac 180
cancaagagg ctgatcttcg ccggaaagca gttggtggat ggcanactc ttgctgacna 240
caatatccat gaangagtcc anccttcac ttgttctcag gctccgtggn ggtatgcaga 300
ttttcgtnaa gacgttgact gggaaaacta ncactttggg tgggtggagag ttctgacanc 360
attgataacg tgaaagccac ggattnaana caangaaggg tattcctccg ggacaanaag 420
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aattcaa 487

<210> 5262
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<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H2

<400> 5262

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 ttctatttag gctcggatt cttatcgatg taagcaagat tgatgtgagc acaacgggtt 300
 tagggtttaa tatttctatg ccaattatga ttgctcctac tgcaatgcag aaaatggctc 360
 atcctgatgg cgagcttgca accgcgaaga gctacttctg ctgccnggaa caatcatgac 420
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<210> 5263

<211> 448

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H3

<400> 5263

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 ttgaggtgcc ggttactacg gagaaagctg tggctgcgcc tgctccggaa gctacggagg 180
 agaaagttgt gtctgaggtg gcggtgcctg aaacagaggt gacggcgggtg aaagaggagg 240
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 cttctgaatt acaggaagct gagaanaatg ctttggctga gttaaaggag ttggttangg 360
 angctttgaa caaacgtgaa ttcaccgcgc caacgccaac aacaagctcc gggtaaaagg 420
 aaaannaaag ttganggaga aagaaaac 448

<210> 5264

<211> 422

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-H4

<400> 5264

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tcggctcaag acgcctctct acccgatgat gtcggagagc ccggagctcc gatggtcttt 180
catccgcaag gtctattcca tcctctccat ccaagctgct cggtacaatc gccgtcgctg 240
ccaccgtcgt taaggttcat tctatttctg tattcttcac caccaccacc gccggnttcg 300
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tg 422

<210> 5265
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-H6

<400> 5265

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caciaaccct aatttttagtc tctcaaaatc tccaccgttt ctaccaccgt caatgtggcg 180
gccgtggcgt aaatcgctcg ttaagattca cgacacatac tctccaacca ccgcttcctt 240
caaagacatn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnaaa accgcttcta gagtcttcca ccgagtcctg gcagctaatt tgatcctcaa 360
atcgtggcca actcgtcaat ctaatcacct cctccgcgca gattccgaac ctatcaatcc 420
aagccggaat caaaatccag aatcagattc gaaganncca aaagcaaaaa ncgaanccaag 480
atgtacggan ttcaaattcca agg 503

<210> 5266
<211> 449

<212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-002-Q1-E1-F3
 <400> 5266

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tcttcttaat tatgttcccg tttacgttat gcttccgttg ggagttgtga atgtggaaaa 180
tgtatttgcg gaccagaaaa cgcttgaaac gcagcttaaa cgtctcaaag aagaagctgg 240
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atatgattgg acggcctaca aaacgctggt ccagctgacg gcacgtttgg gactcaaaat 360
ccaagcaatc atgtcttttc accaatgtgg tggaaacgtt ggcgacatcg ttactaaccc 420
cgattccaca atggggttcgc gatgtcggg 449
  
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<210> 5267
 <211> 524
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-A8

<400> 5267

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tggataaaca cggataccaa ggtcttttta agaggaaaac aaatgaggtt ttcacggtta 240
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aaaaatatga gggtgagttc aacaaggctg cacagtcttt gactgaggct attatccctg 360
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gtactggaag caaaattcgg tagccagctg ctgacaacct gggaagcgcc agctactttg 480
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<210> 5268

<211> 438
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
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<400> 5268

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 gagggacgac agagaaagag gagaggggtga tttgtcatgg cctttgatcg gagagaaaag 180
 tagtgtcaag gaagaagtga agaagcagct atggctttca ggcccactca tcgccgtgag 240
 tcttcttcag ttttgtctac aagttatctc cgtcatgttc gttggccatc ttggctctct 300
 tcctctctcc gccgcattca tcgccacctc ttctgcctcc gtcaccggtt tcagcttctt 360
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 cggnatgtta ggaataca 438

<210> 5269
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-001-Q1-E1-B4

<400> 5269

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 tatggcaaac cgtccacacg ttccgaagtt tggggactgg aacaaccaag accaaccatt 180
 cacggtcgtc tttgacaacg caaggacgaa caaacgacaa gacttgtatg aatctataga 240
 gaaaccagag accaaacctc aagagctagc tcctcctcct cctcagcctg ctcgtagaat 300
 tcaaaaaccg gaagcaccaa aaccgggtta gcaagacacg ccgagagcac ctccaccaac 360
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 aggcggaggc aaggagtg 438

<210> 5270

<211> 436
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-001-Q1-E1-B7

<400> 5270

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 gcttaaggag acaagcccg c atctcggtgg tggaagagtc gttggtgggc gtgttataca 180
 caaagacaaa accgctacga gtacttatga tcttgctcag agaattgtatt tcctttatgt 240
 ccgcgttgtc aaagctcgtg agcttcctat aatggatata acaggaagtg ttgatccatt 300
 cgtcgagggtg agagtgggga actacaaagg aatcacaaga cattttgaga agagacaaca 360
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 aagtantggg ttaagg 436

<210> 5271
 <211> 429
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-001-Q1-E1-C4

<400> 5271

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 cagctggaga ttagccgccg agaccaataa cgtcggaact tgggatctga ttccgtcaat 180
 ctgcgtggat tccgtcgccg agtatcttaa cggagaccag tttttatccg attacagtgt 240
 catcgtcgat tatgctctcg cgtttgcgaa atcggttgaa atttcggcg acggcaagga 300
 cgtgtggatc ttgatatcg acgagacgct tctcacgaat attgactact acaagggtca 360
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 acaactcca 429

<210> 5272

<211> 434
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 atctctgccca ttgtttctca gaatgggctg aagtcaaagc cgtcgcttca aaatcatctc 180
 tcaatttcgt tganaaacct tctctacctc agaatgtgac tctctataca gatgaagatg 240
 aatgggtctan ctggaacaag attgggtgatc ccgttcttca tatcgaagct canacgctgg 300
 gctgatgtta tgatcattgc tcctttgtct gctaacacat tanccaagat tgctgggtggg 360
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 gttgcaccgg cgat 434

<210> 5273
 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-001-Q1-E1-C6

<400> 5273
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 gcgttgatgg gtctcatcct cctcctcctc ctttaactcc tgatcaagct attatagagt 180
 cggatccgtc gaagaagagg aaaatgggga tgcttctctc agaagtgggt actcgtgtga 240
 tgtgtcgggtg gagagacggg aaacaccatc cggtgaaagt aattgagcgc cggcggatac 300
 ataacggcgg tcaaaatgat tacgaagtat tacgttcatt aactgagtt taataggagg 360
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 tgaaaaatgg aagac 435

<210> 5274
 <211> 417

THE **NEW** **YORK** **PUBLIC** **LIBRARY** **ASTOR LENOX TILDEN FOUNDATION**

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atggatgaac	gatttcacgt	catttgatca	aaccggtttc	gagttttctg	aatttgaaac	180
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tactgttcaa	tccaatcgaa	aaccgccgtt	gaagatcgca	ccaccgaacc	gaaccaagt	360
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<400>	5275
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ttgtggaatc	aatagctgtc	tccgggaaaa	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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gggagttcaa	cagtctggat	ccattatcct	agccgggtcg	ggtcaaggtc	tttgagtaag	360
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2580

<223> unsure at all n locations
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<400> 5276

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tctctcgaca atggtgtcgg accaggatct agcgaaagga gtcgagactt tgcttcgaca 180
atccgaccct agctctctca catcgттаag cagtattgtt cagcagcttg aagctaagtt 240
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tgctcaccaa aacccttctg cctccgtcgc ctccgcttca tccgtacaac aatctcaact 360
cctcctccgg cgtcttctca ccaacaagca agaatttgca ttccggcgtc aatgttcctt 420
ccgaanggcg aaaaggg 437

<210> 5277
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-D7

<400> 5277

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ttcttcatgc ctgctactcg tgtgcgtttt ttttttctct gtatggaaga ttgtttcatt 180
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ttctcttggtg attaatatgt cttgtgaagt tgagtcgttc tggtgcatgt actggaaaaa 360
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tcgttttact ga 432

<210> 5278
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-D8

<400> 5278

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ccggaaggaa tagttcttgg gtttcaacat tacattgtaa tgcttggaac tactgtaatc 180
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cttcctgtgg tcatgggaag ctcttaatg ccttaacctc aatccctggc tccttaacaa 360
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<210> 5279
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-E1

<400> 5279

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gctctcttta tgcattctccg acatcgggga ggcaccggtg gttctgtttt ctctcatctt 180
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gctgacagtc ctgctaattcg 440

<210> 5280
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E2

<400> 5280

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tactaagaaa gaagaataat tcaattgaac gtgcccatgt acgtaatgtt gactacaatc 420
ccaaagagaa gaaca 435

<210> 5281

<211> 436

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-F6

<400> 5281

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ttaatcgatc tgaacgtgat ggagacggag gaagacgaaa cgcaaacgca aacaccgtct 180
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cgatgttaag cttcac 436

<210> 5282

<211> 469

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E5

<400> 5282

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cgtgagatcc aacgtcggaa aataacancg acgcatcaaa cagtttggtg gcccttcgtc 300
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atgattaaca agggatatgtc ctcncctcg tntctctggn aattgnnaac aaacgaaaga 420
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<210> 5283

<211> 443

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-014-Q1-E1-H11

<400> 5283

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caggtggcgg tagcgacagt ggaggtggan ctgcctccgg taggacaagg acttaacaaa 360
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ctaattttaa caaccatat tan 443

<210> 5284

<211> 442

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-025-Q1-E1-E4
 <400> 5284

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caaggttggg aggtctgcca atatctggtc atgctccagc tgttattcca tcttccatat 360
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<210> 5285
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 5285

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 <211> 514
 <212> DNA
 <213> Arabidopsis thaliana

CCF03-160603

<223> unsure at all n locations
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nrrrrrrrrrr ctgtaaccga ttttaaagat ctcaattttt anggggttgtt gattttttcaa 180
tttctgggtt aatttttttt anggttttca tttgggaatc atgtcggatg cgtattgtac 240
ggattgtaaa aaggagacgg agttggttgt cgatcactca gccggagata ccctttgctc 300
cgaagtgtgg tttggttttg gaatctcact ccattgatga gacctctgag tggcgtacct 360
tcgctaataa atcttccaac agcgatccca atcgtgtcgg tggccaacc aaccgccttc 420
tcgctgataa gtgctttaac cactgttatc gctaagccaa tgggtcaacc tgggtgaatt 480
cctggcctcc tcctctcggg aaggtggcaa naat 514

<210> 5287
<211> 384
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-D8

<400> 5287

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cgccgttgac tactatctca agtctcgtgg ctacaatggc ctcttttctc agatcgagtt 180
atctttctct gcttccaatt tgcgagaccg ggacgtgatt tcaaagagtg atgcaatggt 240
ggttggttat acaaaaggaa gagatggaac acttgctgaa ttgtttcgta gtgaanttgt 300
tttgattctt ttgaatccta aatggattaa ggaattttan tattggttat canttcgaga 360
ntgtgcaaac attgcctgtn tcgt 384

<210> 5288
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-F7

<400> 5288

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cttggggccg ttatgccgcc gagatccgag atccgggcaa gaaaaccgc gtctggcttg 120
gcactttcga tacggctgaa gaggcggcgc gtgcttacga tacggcggcg cgtgattttc 180
gtggtgctaa ggctaagacc aatttcccaa cttttctcga gctgagtgc cagaaggtcc 240
ctaccggttt cgcgcgtagc cctagccaga gcaacacgtc cgactgtgct tctcctccc 300
acttagttgt gccttcaacc aaggctggga aatgttcccc ccgcaactcg aagcttaatc 360
tcgggcggag gangcggcgg ctctgtgtaa caagattccc gatgtcgcgt cctgtctact 420
tttgacctg aatggggatc ggtaacgtta ggtcgtggtc aagcctctc ctgtgacaat 480
cggcgt 486

<210> 5289

<211> 494

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-013-Q1-E1-F2

<400> 5289

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gaccagggtg gtaattcttt cgattgttcg gagtttggtt ggagcgatca agtccgata 120
actcccgaca tctcttctgc ggttatcaac annaacanct cagctctgtt ctttgaggaa 180
gccaatccag ctaagaagct caagtctatg gatttcgaga caccttaca caacactgaa 240
tgggacgctt cactggattt cctcaacgaa gatgctgtaa cgactcagga caatggtgca 300
aaccctatgg acctatggga gtattgatga aattcattcc atgattggag gagtcctctg 360
aagaaattca atttcaatgt naataaagnt gcatgtttgt taatttccc catcgttccg 420
tttatcaacc tccaaaactt tctaaagtcc gttactgcat ctcctctgc tgtctctgct 480
cgccctccc aaga 494

<210> 5290

<211> 514
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-013-Q1-E1-G5

 <400> 5290

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 actactaacc agaccacaa taatgccaaag gagattcggt acagaggcgt taggaagcgt 180
 ccttggggcc gttatgccgc cgagatccga gatccgggca agaaaaccg cgtctgcctt 240
 ggcactttcg atacggctga agaggcggcg cgtgcttacg atacggcggc gcgtgatttt 300
 cgtggtgcta aggctaagac caatttccca acttttctcg agctgagtga ccagaaggtc 360
 ctaccggttt cgcgcgtagc cctagccaga gcagcacgt cgactgggtgc ttctcctccg 420
 acgttagttt gtgccttaag cgaacggctg ggaatgtttc ccccgcaact cgaaccta 480
 cccggcggaa ggaagcggcg gctccttttt acaa 514

<210> 5291
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-017-Q1-E1-D4

 <400> 5291

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 ctgaggaact ctggtcagag ctcgatgctt ccgccgccga cgacttctgg ggtttctatt 180
 ccacctcaa actccatccc accaaccaag ttaacgtgaa agaggaggca gtgaagaagg 240
 agcaggcaac agagccgggg aaacggagga agaggaagaa tgtttataga gggatacgta 300
 agcgtccatg gggaaaatgg gcggctgaga ttcgagatcc acgaaaagggt gttagagttt 360
 ggcttggtac gttcaacacg gcggaggaag ctgccatggc ttatgatgtt gccgccaagc 420
 agattcgtgg tgataaagcc aaactcaact tcccagattt gcacaatcct cctcctcc 478

<210> 5292
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-017-Q1-E1-H1

 <400> 5292

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 ctaaaaaaga gaaccccaaa gaatcgaata tttattatatt cgccccgaag attctatttc 120
 tgatcattta caccctaaa aagagtagag ctttcgtgaa gccaccatgt gtggaggagc 180
 tataatctcc gatttcatac ctccgccgag gtccctccgc gtcactaacg agtttatctg 240
 gccggatctg aaaaacaaag tgaaagcttc aaagaagaga tcgaataagc gatccgattt 300
 cttcgatctt gacgatgatt tcgaagctga tttccaaggg tttaagggat gactcggctt 360
 tttgactgcg aagaccaatg atgatgtcnt cgtcaatgtt aagcctttcg tcttcaccgc 420
 aactactaag cccgttanct tccgctttcg tctccactgt aggttcanca tatgccaaga 480
 a 481

<210> 5293
 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-024-Q1-E1-B6

 <400> 5293

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 aataatgcca aggagattcg ttacagaggc gttangaagc gtccttgggg ccgttatgcc 120
 gccnanatcc ganatccggg caataaaacc cgcgtctggc ttggcacttt cgatacggct 180
 gaagaggcgg cgcgtgctta cganacggcn gcgcntgatt ttcgtggtgc taaggctaag 240
 accaatttcc caacttttct cgagctgagt gaccagaatg tccttaccgg tttcgcgcgt 300
 anccctagcc agagcagcac gctcgactgt gcttctctc cgacgttaag ttgtccttca 360
 gcgactgctg ggaatgttcc cccgcanctc gagcttatct ccggcggang aaggcct 417

<210> 5294
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-024-Q1-E1-D7

 <400> 5294

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 gccaaagctca acttcccaga tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnng gcgaagaagg tctgcgttgt ctctcagagt 240
 gagagcgagt taagtcagcc gagtttcccg gtggagtgtg tangatttgg aaatggggac 300
 gagtttcaga acctgagtta cggatttgag ccggattatg atctgaaaca gcagatatcg 360
 ancttggaaat cgttccttga gctggacggt aacacggcgg agcaaaccga gtcaancttg 420
 atgantcccg tttttccccc gggggg 446

<210> 5295
 <211> 482
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-037-Q1-E1-D3

 <400> 5295

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 aatctatcta tccgagaatg gccaaagatgg gcttgaaacc cgaccgggt actactaacc 120
 agaccacaa taatgccaag gagattcggt acagaggcgt taggaagcgt cttggggcc 180
 gttatgccgc cgagatccga gatccgggca agaaaaccg cgtctggctt ggcaacttctg 240
 atacggctga agaggcggcg cgtgcttacg atacggcggc gcgtgatttt cgtggtgcta 300
 aggctaagac caatttccca acttttctcg agctgagtga ccagaaggtc cctaccggtt 360
 tcgcgcgtag ccctagccaa gagcagcacg ctcgactgtg cttctcctcc gacgttagtt 420
 gtgccttcag cgacggctgg ggaaatgttc ccccggcagc tccgagctta gtctccggn 480

<210> 5296
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-039-Q1-E1-C8

 <400> 5296

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acgatgggga ttgggacgag gaagagagat ctgaaaccgt ataaaggaat acgaatgagg 180
aaatggggga aatgggtggc ggagatacgg gaaccgaata agagatcaag gatctggtta 240
ggttcttatg cgacgcctga agcggcggcg agagcttacg aactgctgt tttttacctc 300
cgtggtcctt cagcgaggct taattttccg gagcttttgg ctggacttac tgtttctaac 360
ggcggangaa gangtggtga tttatcggcg gcgtatatta ngagaaaagc ggcngangtt 420
ggtgctcang ttgatgccgc ntggaaccac 450
  
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<210> 5297
 <211> 504
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-039-Q1-E1-D2

 <400> 5297

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aggaggaagt ggggcaagtg ggtggctgag attcgtgagc ctaacaaacg ctcacggctt 180
tggcttggtc cttacacaac cgatatcgcc gccgctagag cctacgacgt ggccgtcttc 240
tacctccgtg gcccctccgc acgtctcaac ttccctgac ttctcttgca agaagaggac 300
catctctcag ccgccaccac cgctgacatg cccgcagctc ttataaggga aaaagcggcg 360
gaggtcggcg ccagagtcga cgctcttcta gcttctgccg ctccttcgat ggctcactcc 420
  
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actccgccgg taataaaacc cgacttgaat caaatacccg aatccggaga tatatatcaa 480
 attaataac atgtagttt gttt 504

<210> 5298
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-055-Q1-E1-A5

<400> 5298
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 accgaaccgg agttttttatc caatggtgaa gcaagcgatg aaggaagagg agaagaagag 180
 aaacacggcg atgcagtcaa agtacaaagg agtgaggaag aggaaatggg gaaaatgggt 240
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 cgagaaggcg gcgcgtgctt tcgacgccgc tcaattttgt ctccgcggcg ggcgatgcta 360
 atttcaattt ccctaataat ccaccgtcga tctccgtana aaagtcgttg acgcctccgg 420
 agattcagga aagctgctgc taaattcgct aacacattcc naggacattg tcaagggaag 480
 aaagaaa 487

<210> 5299
 <211> 401
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-061-Q1-E2-F6

<400> 5299
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 gtctccggcg agtttactat atagaatggg aagcgggaaca agcgtggtac ttgattcaga 180
 gaacggtgtc gaagtccgaa gtcgaagccg aatcaaggaa agcttccttc ttcaagattc 240
 aaaggtgttg ttcctcaacc aaatggaaga tggggagctc agatttacga ggaaacatca 300

acgcgtgtgg cttggtactt tcaacgagga agacgaagca gctcgtgctt acgangtcgc 360
 gggntcacgt ntccgtgggc cgcgatgccc gntaccaaag t 401

<210> 5300
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-068-Q1-E1-F12
 <400> 5300

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 gggccgttat gccgccgaga tccgagatcc gggcaagaaa acccgcgtct ggcttggcac 180
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 tgctaaggct aanaccantt tcccaacttt tctcgagctg agtgaccana aggtccctac 300
 cggtttcgcg cgtagcccta gccagagcag cacgctcgac tgtgcttctc ctccgacgtt 360
 agttgtgcct tcagcgacgg ctgggaatgt tcncccgcaa gctcgagctt 410

<210> 5301
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E1-F7
 <400> 5301

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 gcactttcga tacggctgaa gaggcggcgc gtgcttacga tacggcggcg cgtgattttc 180
 gtggtgctaa ggctaagacc aatttcccaa cttttctcga gctgagtgac cagaagggtcc 240
 ctaccggttt cgcgcgtagc cctagccaga gcagcacgct cgactgtgct tctcctccga 300
 cgttagttgt gccttcagcg acggctggga atgttcccc gcagctcgag cttagtctcn 360
 gcggaggagg cggcggctcg tgttaatcag atcccgatgt cgcgttctgt ctacttttgg 420

acctgatggg gatcggtaac gtacgtcgtg gtcagcctcc tccct

465

<210> 5302

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-F1

<400> 5302

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aataccgagg gattangcag cgtcnttggg gaaaatgggc tgcggagatc cgtgatccga 180

agaaaaggct cccganaatg gcttggaca ttcgacactg ctgaggaagc agcaagagct 240

tatgatgctg cagcacgcag aatccgtggc acgaaagcta aggtgaattt tcccgangag 300

aagaacccta gcgtcgtatc ccagaaacgt cctagtgcga agactaataa tcttcagaaa 360

tcagtggcta aaccaaaaca aagcgtaact ttggttcaac agccaacaca tctgagtcga 420

caagtactgc aacaactc 438

<210> 5303

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-063-Q1-E1-A3

<400> 5303

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gcgagacaag tgacgttttc gaaacgaaga agagggtttt tcaagaaagc tgaagaactc 180

tccgttctct gcgacgccga tgtcgctctc atcatcttct cttccaccgg aaaactgttc 240

gagttctgta gctccagcat gaaggaagtc ctagagaggc ataacttgca gtcaaagaac 300

ttggagaagc ttgatcagcc atctcttgaa gttacagctg gttgagaaca gtgatcacgc 360

ccgaatgagt aaagaaattg cggacaagag ccaccgacta aggcaaatga gaggaganga 420

acttcaaggg acttgacaat tgaaga

446

<210> 5304

<211> 484

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-016-Q1-E1-C1

<400> 5304

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tgtcaaagtg aaacaatacc atatgaatta tcagagaagc tcatggcata agatgctggg 180

gttgctgaag gtggataata ctgcancagg catgaacggt ttggggaaga ccatgaagga 240

gaacctgaag cagttcaata ttcagtttga tgagatatgt aaagtgcatt cgacgtgggt 300

antgtttgac gaggcagctga aagaacagct aaanatctca ctggccaaac ttttgggtacc 360

ggcatacggg gagcttcac ngcangttcc aaaaaacctt ggngacatan ggaaaaaacg 420

cagacaagtt acatccaagt atggannttg atgacatnta ngcncctnat taacgaagct 480

gttc 484

<210> 5305

<211> 497

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-021-Q1-E1-G2

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agatagtggg aagaagaata tgggtatggg tggatgata cttgctgagc ttgctttgct 180

tgatcctaaa agagctaaaa ggattttagc gaatagacaa tctgcggcga ggtcgaaaga 240

gaggaagatt aggtatactg gtgagttaga gaggaagggt cagacacttc agaatagaagc 300

tactacattg tctgctcaag tcactatggt acagagagga acatcagagc tgaacactga 360

aaataaacac ctcaaaatgc ggcttcaagc tttagagcaa caagctgaac ttanggatgc 420
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 caaggggaat ggaaatt 497

<210> 5306
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-027-Q1-E1-G7
 <400> 5306

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 gttcttggat taggtccctc accaattcca aataattaca atagtaccat cagacaatcc 180
 tccgtttaca agctcgagcc gtcgttgact ctatgcctct cgggcgatcc ctcggttacc 240
 gtggtgaccg gagctgacca gctatgccgt cagacgtcat ctacagcgg agtctcttct 300
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 gaagagatga cggagagagt tataagtgat taccatgaag atgaagaagg tattagtgtc 420
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<210> 5307
 <211> 477
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-031-Q1-E1-E9
 <400> 5307

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 tttcacaatg ggtctagtga taacattaca gaagatgata aatctcaatc gcaggagtgt 180
 tctccttcag aacgtcanga gctacananc annaagagca agcttttaac aatgggtggat 240
 gaggtagata aaangtataa ccaataccat catcaaatgg aagctttanc atcgtctttc 300
 gagatggtaa caggctcttg agcagctaag ccttacacat ccgtagctct gaatagaatc 360

tctcgccatt tccgctgttt acgcnacgcg ataaaagaac agattcaagt gatnnagang 420
 gaancttggg gagagagaga cttctgatga acaaggagan aaggtaccgc gtcctaa 477

<210> 5308
 <211> 442
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-001-Q1-E1-G4
 <400> 5308

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 tctggatttt gaccactgat ggccttagat caatcttttg aagatgctgc tttacttggg 180
 gaactctatg gagaagggtgc attttggttc aagagcaaga aacctgaacc cattacagtc 240
 tcggttcctt ctgatgatac tgatgattcg aattttgact gcaatatttg cttagactcg 300
 gtgcaagaac ctgttgtagc tctctgtggt cacctctttt gctggccttg tattcacaaa 360
 tggcttgatg tacagagctt ctcaacaagt gatgaatacc aaagacatag acagtgtcct 420
 gtttgtaaatt ctaaagtttc tc 442

<210> 5309
 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-D10
 <400> 5309

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 gagattctta gattgttgcc taagtgtaga cacgctttcc acatcggatg tatcgatcag 180
 tggcttgagc aacacgcaac ttgtcctctt tgcagagata gagtctcaat ggaagaagat 240
 tcctctgttc tcactaacgg aaacagtttc aggttcttga atcagtctga gattagagaa 300
 gattcgagct tggagcttta catcgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnncttagtg ggtcgctgag attcaacatc ggagagagtt tccggaagat tctgaa 416

<210> 5310
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-033-Q1-E2-A9
 <400> 5310

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 gattaagtct agtgatatcc tcaataagaa atgttttgag aacaccattg ggatctaaat 240
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 taccatagat cgttatctg aggcatacta aggntcgagt cancaccaaa ccggtttccg 360
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 ttccaagaaa cctgagaaga atttttgtag atatgggaag aggaagggtt cagctacggc 180
 ggatcgagaa taagataagg agacangtga nattttcaaa gcgaaggacc ggtttggtaa 240
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 ccaaaggcaa actctttgag tactcngcng ggttccagca tggagagaat tcttgatcga 360
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607130-466665

<400> 5314
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ttaaagattg ttgatgatga agagattaag tagttcagat tcagtgggtg gtctcatctc 240
tttatgtcct acaacttcca cagatgagca gagtccgagg agatacggtg ggagagagtt 300
tcagtcgatg cttgaaggat acgaggaaga agaagaagct atagtagaag aaagaggaca 360
cgtgggcttg tccggagaag aagaga 386

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E1-H5

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aatttcaaaa cttcataaga atttctctga taataaagaa aaagctggag tagaactatt 180
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ttctacagat gaacagagtc caagagggta cggaagtaat taccaatcta tgcttgaagg 300
ttacgatgaa gatgctacac taatcgagga atattccggc aaccaccacc acatgggtct 360
atcggaagaa aagagaagat taaaagtgac caagtcaaag ctcttgagaa gaat 414

<210> 5316
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-023-Q1-E1-B6

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gggtttaaga gagtaaagat catcaagtac tatgcattaa attgagaagt tattaataat 180
 ttcgaaagta attaaagatt gttgatgatg aagagattaa gtagttcaga ttcagtgggt 240
 ggtctcatct ctttatgtcc tacaacttcc acagatgagc agagtccgag gagatacgg 300
 gggagagagt ttcagtcgat gcttgaagga tacgaggaag aagaagaagc tatagtagaa 360
 gaaagaggac acgtgggctt gtcggagaag aaggaaagtt aagcataaac aagttaaagc 420
 tttggagaag aatttgagtt agagaataa 449

<210> 5317
 <211> 387
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-061-Q1-E1-D11
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 ttcttggtgt tgattggtat tagatgacta tttcttagta ttagtcaatt ctctgtttcc 180
 atcttatatg gatagtctag acacagagca aagatccttc tttggagaaa aagaagatga 240
 gagacgagag aggatcgttt cttcacgtat tggtcgtaga tagatcttaa tcgataacca 300
 tctaggcctt gatctaacca ttcaatataa actttatttc cttcttcttt tcgatctcaa 360
 ttgttccgac caaacaagat gaagaga 387

<210> 5318
 <211> 234
 <212> DNA
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 ggtgggattg ttggttgatg aagaaaaaaa aatagtttgt aattacaggt ttaaataatgt 120
 agagaaaaaa tgacgaatat gtattatctt gttttttttt ccttcgaata tgtattacgg 180
 taatataaat ttgcttgtaa aaataataaa tatattattt gataaatttt gtac 234

<210> 5319
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 <212> DNA
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 <223> Clone ID: LIB23-023-Q1-E1-E6

 <400> 5319

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 tatgactggg gggcctaact gtaggcccaa acattggcgt cggaacaccg ccattgctat 180
 gttcggcggt ttccttgtgt gcatcccat cgccaagcta tctgctaagc ttgagcaaag 240
 gccacacatg ccagtaggcc caattccttc acagatctgg tgcaagaact ttggaaccaa 300
 ggacgattac gaaaaagagc attaaaagtt ttttcttgg tttggagaga accctttaat 360
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 atttcagagt actgtgaaca tactaatatg tctttttt 457

<210> 5320
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-040-Q1-E1-E7

 <400> 5320

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 atctctccgg aacggtgact tcccggagaa agattgtctt ctccctctaa tttcaaagct 120
 tctcgggttat tgccctggtg ctgcttcaat caccgtcaag ctccctcaga taatgaaaat 180
 cgttcaacat aagagtgtac gaggttaag tgttggtgga tttgagcttg aagttggttg 240
 ttacacaatt tcacttgctt attggttgca taaaaggctt cccttttccg ctttcgggca 300
 aatggctttt cttttgatcc aagctttaat cctggtggct tgtaactatt aatattcaca 360
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 gcttgctgga caaattaatc cgacgctttt cgaagctc 458

<210> 5321
 <211> 393
 <212> DNA
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 <223> Clone ID: LIB23-069-Q1-E1-F11

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 agcaatcaca aatcaaagag atgggaagag ctccatgctg tgagaagatg gggttgaaga 180
 gaggaccatg gacacctgaa gaagatcaaa tcttggtctc ttttatcctc aaccatggac 240
 atagtaactg gcgagccctc cctaagcaag ctggtctttt gagatgtgga aaaagctgta 300
 gacttaggtg gatgaactat ttaaagcctg atattaaacg tggcaatttc accaaagaag 360
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<210> 5322
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-013-Q1-E1-F1

 <400> 5322

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 cttcggagag gtgatttatt accaaaaaaa agattttaaa agtctaaatc cttttttctt 180
 tctttccttc aacatgcctt taccttgga gaaatctaaa tctagtcgga tctctagatt 240
 cgtatcagac tttcaacaat ctcttaaca tgggtgatct ctggttggtg aaactgggtt 300
 cccaacttct ttaatcgatc tctttgttaa gaatcgcat cgtctcaaaa aacaatcttc 360
 aaaacgtaac aacaagaaca acaaagccca gactgaaacg cgtgttttgt 410

<210> 5323
 <211> 280
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-065-Q1-E1-G1

<400> 5323

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cgatgggaaa tccatgctcc taacgactac aaataacaat atctacgttc ttgatgcata 120
tcgtggagag aagaaatgtg gttttagttt ggagccttca cagggtacac ccatagaggc 180
caccttcaca ccagatggca agtatgttct gtcaggttca ggtgatggaa cttacatgc 240
gtggaacatc gagaacccat ctgaggtggc gaggtgggag 280

<210> 5324

<211> 419

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-043-Q1-E1-F1

<400> 5324

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aaatcaacga tccaacggcc acaatctctt caccattctc ttccgtcaac cttaacagcg 120
ttaacgacta cccacactct ccgtcaccgt atctcgactc cttcgcttct ctcttccgtt 180
acctcccgtc aaacgagtta acaaacgatt cagactcatc aagtggcgac gagtcatcac 240
cactcaccga ctattctctc tccgacgagt ttcgcatcta cgagttcaaa atccggcgat 300
gcgctcgagg tcgatctcat gattggacgg agtgtccgtt cgcacatccc ggagaaaaag 360
ctcgacgacg tgatccgaga aagtttcatt actccggcac cgcttgtcct gagtttcgt 419

<210> 5325

<211> 389

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-035-Q1-E112-G6

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aacgatccaa cggccacaat ctcttcacca ttctcttccg tcaaccttaa cagcgtaac 120
gactaccac actctccgtc accgtatctc gactccttcg cttctctctt ccgttacctc 180
ccgtcaaacy agttaacaaa cgattcagac tcatcaagtg gcgacgagtc atcaccactc 240

accgactcat tctcctccga cgagtttcgc atctacgagt tcaaaatccg gcgatgcgct 300
cgaggtcgat ctcatgattg gacggagtgt ccgttcgcac atcccggaga aaaagctcga 360
cgacgtgatc cgagaaagtt tcattactc 389

<210> 5326
<211> 389
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-051-Q1-E1-E12
<400> 5326

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gatgtgaaca gaccttgtgg tgaagagaga gttactccgc ttcactgtgc tgttgctggc 120
tgttctgtga atatgattga agtcatcaat gtcttgcttg atgcttctgc tttggttaac 180
tctgttgatg ctaatgggaa tcaacctttg gatgtgtttg ttcgagtttc gaggtttgtg 240
gctagtccga ggaggaaagc ggttgagttg ttgctgagag gaggaggtgt tggaggattg 300
atcgatgagg cggttgaaga agagatcaag attgtctcta agtatccagc tgatgcttct 360
ttaccggata taaacgaagg ggtttatgg 389

<210> 5327
<211> 343
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-057-Q1-E1-E6
<400> 5327

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gttgactctc tttcaatcta gctctgaatc tctactctc ctaccgaga accatgaact 120
ccaacgacca ggatccgatt ccgttcagac ccgaagacaa caacttctcc ggttccaaaa 180
cctacgccat gagcggcaga atcatgctaa gtgcaatagt aatcctcttc ttcgtcgtca 240
ttttaatggt ctctctccat ctttacgctc gttggatctt cctccgtgct cgtagacgtc 300
atcgccgtcg tcgtagccgt aaccgtcgcg ctacgatggt ttt 343

<210> 5328
 <211> 351
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-039-Q1-E1-D4

 <400> 5328

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 ttgggaatta taacacagca agagaagcaa tgggactatc atattcatca aaccaaacac 180
 cgttagataa cgaccagaac aaaccttctc ctgcaacggc tgtgacaatg ccacaggctc 240
 cggagctagc tctcaggtgt ccacgttgcg actcaacaaa gacaaagttt tgttactaca 300
 acaactacag tctcactcaa cctcgctact tccgcaaadc atgcggagat a 351

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 <211> 381
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-060-Q1-E1-A4

 <400> 5329

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 tcaccaccat tcacattctc aagaatgtcc ggtttgtaaa gccgtgggtc aagacgataa 180
 gcttggttctt ctttacggta gaggcaagaa ccagactgac ccgagatcaa aacgttatcc 240
 ggggtttacgg attcctaacc gaccaacagg tcaaagacct gatactgctg ctctcctcc 300
 tcagcctgaa gctgcgagta attttttcaa ctaccgtatt ggcttgatgg gtggaattac 360
 tccgaatgat ggcgaactac c 381

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 <211> 281
 <212> DNA
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 <223> Clone ID: LIB23-045-Q1-E1-C6

 <400> 5330

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 tctctgtggc catctctttt gctggccttg cttataccgt c 281

<210> 5331
 <211> 282
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-037-Q1-E1-H10
 <400> 5331

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 tgcttatctc atgcctcctg ttgagtctgg ctctgttgat ttcgccgagt ttgagcctaa 180
 tcttgtctat tagtagctgc aatgtcaagt cttgagttta cggctgggtc ttgatttctt 240
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<210> 5332
 <211> 410
 <212> DNA
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 <223> Clone ID: LIB23-014-Q1-E1-A6
 <400> 5332

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 caaacccgag caaattcctc tccggccgac gtttctccac cgtgatcaga atgtcagcct 180
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 agcttttcaa cacggagatc aacaagaacc ttaacgaagc agagttcgag gctctgcttc 360
 aagagttaa aaccgagtac aatcagacaa cattcgtgag gaacaaggag 410

<210> 5333
 <211> 380
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-035-Q1-E112-F8

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 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
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 <400> 5334

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<211> 359
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-017-Q1-E1-E6

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 aggtctctcg ctgaagttac aggaaccccc taaggtagct gcatgaactg atgcttcctt 300
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<210> 5336
 <211> 364
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-043-Q1-E1-H6

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 taatcaagag actcttcatc aacgtttaca agctttgatt gaaggaacac acgaagggtg 300
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 <211> 284
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-045-Q1-E1-B9

 <400> 5337

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caggaaacaa aattcaaaaa gaacaaaaaa aaaagggtcaa accaaaacga tggcgtttca 180
tcacaatcat ctctcacaag acctctcctt caatcatttc accgaccaac accaacctcc 240
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<210> 5338
<211> 383
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-066-Q1-E1-D4
<400> 5338

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aagctttgtg atcagatctc cgacgctatc ctcgatgctt gccttgaaca agaccctgag 180
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accaccaagg ctaacgttga ttacgagcag attgttcgta aaacatgccg tgagattgga 300
ttcgtctctg ctgacgttgg tctaaatgct gacaattgca aggttctggt taacattgag 360
caacagagtc ctgacattgc aca 383

<210> 5339
<211> 382
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-028-Q1-E1-H8
<400> 5339

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caagctttgt gatcagatct ccgacgctat cctcgatgct tgccttgaac aagaccctga 180
gagcaaagtt gcttgtgaga cttgtacat gactaacatg gtcattggtt ttggagaaat 240
caccaccaag gctaacgttg attacgagca gattgttcgt aaaacatgcc gtgagattgg 300

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<210> 5340
<211> 280
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-065-Q1-E1-G2
<400> 5340

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agctttgtga tcagatctcc gacgctatcc tcgatgcttg ccttgaacaa gaccctgaga 180
gcaaagttgc ttgtgagact tgtaccaaga ctaacatggc catgggtttt ggagaaatca 240
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<210> 5341
<211> 431
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-004-Q1-E1-F5
<400> 5341

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acaagctttg tgatcagatc tccgacgcta tcctcgatgc ttgccttgaa caagaccctg 180
agagcaaagt tgcttgtgag acttgtacca agactaacat ggtcatgggt tttggagaaa 240
tcaccaccaa ggctaacgtt gattacgagc agattgttcg taaaacatgc cgtgagattg 300
gattcgtctc tgctgacgtt ggtctagatg ctgacaattg caacgttctg gttaacattg 360
agcaacagag tcctgacatt gcacaagggt ttcatgggtc tctcagcaag aagccagacg 420
aggttgagc t 431

<210> 5342
<211> 456

<212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-068-Q1-E1-H9

 <400> 5342

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 gaacagtgat cacgccccgaa tgagtaaaga aattgcggac aagagccacc gactaaggca 180
 aatgagagga gaggaacttc aaggacttga cattgaagag cttcagcagc tagagaaggc 240
 ccttgaaact ggtttgacgc gtgtgattga aacaaagagt gacaagatta tgagtgagat 300
 cagcgaactt cagaaaaagg gaatgcaatt gatggatgag aacaagcggg tgaggcagca 360
 aggaacgcaa ctaacggaag agaacgagcg acttggcatg caaatatgta acaatgtgca 420
 tgcacacggt ggtgctgaat cggagaacgc tgctgt 456

<210> 5343
 <211> 460
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-072-Q1-E1-G1

 <400> 5343

 agcgaaaact aatctctctc ctttttcttc tcctctcctt actaaagatc tctgtcttcg 60
 ataatttggt tcaatcactg agaaaatgga ggccgtatga ctagattcta ggcgatcatga 120
 cacagcgatg gaggaacct gtaacgtgaa aggagcggcg gagaaacaat gggaaaggct 180
 taagcagtac tatctccagc acatccatga gctccagcgc cagcttcgac ataagactaa 240
 taacctcaat cgccttgaag ctcaaaggaa tgaactcaat tctcgagtga gaatgctcag 300
 acaagactta cagctccttc aagaacctga gtcctatgtg ggagaagtgg taaaagttat 360
 gggaaagaac aaggatcatgg ttaagggtca tccagagggg aagtatgttg ttgatattga 420
 caaaagtata gacattacga caatcactcc atcaacgaga 460

<210> 5344
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-C3

<400> 5344

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taatttgttt caatcactga gaaaatggcg gccgtaggag tagattcgag gcgtcctgag 120
acagcgatgg aggaaacctg taacgtgaaa ggagcggcgg cgaaacaagg ggaagggctt 180
aagcagtact atctccagca catccatgag ctccagcgcc agcttcgaca gaagactaat 240
aacctcaatc gccttgaagc tcaaaggaat gaactcaatt ctcgagttag aatgctcaga 300
gaagagttac agctccttca agaacctggg tcctatgtgg gagaagtggg aaaagttatg 360
ggaaagaaca aggtcttggg taagggtcat ccaganggga agtatgttgt tgatattgac 420
aaaagtatag acattacgaa aatcactcca tcaacg 456

<210> 5345
<211> 384
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-036-Q1-E1-C12

<400> 5345

aatcaaaacc aaaatcacta aagaggagaa gattgctaaa gtttgataaa acattccaaa 60
atcaatggct gataggatca aagggtccatg gagtcctgaa gaagacgagc agcttcgtag 120
gcttggttgt aaatacgggtc caagaaactg gacagtgatt agcaaacta ttcccggtag 180
atcggggaaa tcgtgtcggt tacgggtggtg caaccagctt tcgccgcaag ttgagcatcg 240
gccgttttcg gctgacgaag acgagacgat cgcacgtgct cacgctcagt tcggtataa 300
atgggcgacg attgctcgtc ttctcaacgg tcgtacggac aacgccgtga agaactactg 360
gaactcgacg ctcaagagga aatg 384

<210> 5346
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-066-Q1-E1-D2

<400> 5346

gagaagagag aagaatcatg ggacaaggac catcgggagg attgaatcgg caaggagatc 60

ggaaacctga tgggtggagat aagaaagaga agaagtttga gccggcggca ccaccggctc 120

gtgtagggag gaagcaaagg aagcagaaag ggccagaggc ggcggcgaga cttccgacgg 180

tgactccgtc tactaagtgt aagctccggt tactgaaatt ggaacggatc aaggattatt 240

tgttgatgga ggaagagttt gtggcgaatc aagagaggtt gaaacctcag gaagagaaag 300

ctgaggaaga tagatctaag gttgatgac ttcgtggtac acctatgagt gttgggaatt 360

tggaagagtt gattgattga gaatcacgct aatggttcct cctc 404

<210> 5347

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-001-Q1-E1-F11

<400> 5347

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attgaatcgg caaggagatc ggaaacctga tgggtggagat aagaaagaga agaagtttga 120

gccggcggca ccaccggctc gtgtagggag gaagcaaagg aagcagaaag ggccagaggc 180

ggcggcgaga cttccgacgg tgactccgtc tactaagtgt aagctccggt tactgaaatt 240

ggaacggatc aaggattatt tgttgatgga ggaagagttt gtggcgaatc aagagaggtt 300

gaaacctcag gaagagaaag ctgaggaaga tagatctaag gttgatgac ttcgtggtac 360

acctatgagt gttgggaatt tgggagagtt gattgatgag aatcacg 407

<210> 5348

<211> 430

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-013-Q1-E1-E9

<400> 5348

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aaacaaaaac cccatcaaaa taatctccgg accagtttct ctttcgattc agtcggaccg 120

gaaaaacaat ggcgtctgtg aaccctttcg atctcttgga cgatgacgca gaggatccca 180
gccagattgt tgcgtctaag ccattgaagg ttgtggctcc ggttcagact gctaagtctg 240
gtaagatgcc gactaagccg cctcctcctt ctcaagctgt gagggaggca aggaacgctc 300
ctgggtggagg tcgtggtgct ggacgtggag ggagttatgg tcgtggtgga cgtgggtgaa 360
acaatagga ttcaaggaac aatgatggtc ctgccaatga aaacggatat ggtggaggct 420
acagacgctc 430

<210> 5349
<211> 421
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-039-Q1-E1-F7
<400> 5349

atcagtttca tattcagatg tatcagagtt ctcattaaca gatctgtttc tttttcctta 60
tctgattaaa caatttcctt cagaatttta cttttttgaa catatatagt ttttctctgt 120
tcctatatct tgagttttgt gagagggttaa ttatatgaaa ttttacgcat tattgttcat 180
ctatatcgaa aaacaatgtc aagaaagcca tgttgcgtcg gagaaggctt gaagaaagga 240
gcatggacca ccgaggagga caagaaactc atctcttaca tccacgacca cggctagga 300
tgctggcgcg acattcccca gaaagctggg ttgaaacggt gtggaaagag ttgtagaacg 360
caatggacca actaccttaa acctgagatc agaagaagcg attttagttc agaggaagag 420
c 421

<210> 5350
<211> 417
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-035-Q1-E1-H11
<400> 5350

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tcctcaaatt ttgaaaaatt ttctcttttg ctttacgttc tctcaattct tatttgtaag 120
aaagtttggt cctttaatca atcaaataca agagactttt gaagattggt tcccaatttg 180

cgtcaatcgg gatcgagtca aatctgaaat cttctccact catcatctga ctataagact 240
 taatcaaggg acttttttgtt cgggttttgtt tttaaacgtc ttggattcga agtgggtaag 300
 gtatggatga aaataatgga ggttcaagct cacttccacc tttccttact aaaacatatg 360
 aaatggttga tgattcttct tctgactcgg tcgttgcttg gagcgaaaac aacaaaa 417

<210> 5351
 <211> 440
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-022-Q2-E1-E4
 <400> 5351

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 aaaaaatgaa aacacgtagc agcagtgtgg gtaagatcaa aggggtgtttc tcgatcagtt 120
 tcatattcag atgtatcaga gttctcatta acagatctgt ttctttttcc ttatctgatt 180
 aaacaatttc cttcagaatt ttactTTTTT gaacatatat agtttttctc tgttcctata 240
 tcttgagttt tgtgagaggt taattatatg aaattttacg cattattggt catctatatc 300
 gaaaaacaat gtcaagaaag ccatgttgcg tcagagaagg cttgaagaaa ggagcatgga 360
 ccaccgagga ggacaagaaa ctcatctcgt acatccacga ccacggcgag ggatgctggc 420
 gcgacattcc ccaaaaagct 440

<210> 5352
 <211> 389
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-048-Q1-E1-H10
 <400> 5352

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 tcaagatgaa tagggagaag ttgatgaaga tggctaatac cgtccgcact ggcggaagg 120
 gtactgtcag aagaaagaag aaggctgtgc acaagaccaa tacaactgat gacaagaggc 180
 ttcaaagcac tcttaagaga attggagtta actccattcc cgctattgaa gaagttaaca 240
 tctttaagga tgatgttggt attcagttca tcaaccctaa ggttcaagct tcaattgctg 300

caaacacatg ggttgtagc ggttctctc agacaaaaa attgcaagat atccttctc 360
 agatcatcag ccaacttga ccaaacaac 389

<210> 5353
 <211> 398
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-058-Q1-E1-H5

<400> 5353

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 aaaaatggaa tctttttgt tcacatctga atccgtcaac gagggacatc ccgacaagct 120
 ttgtgatcag atctccgacg ctatctctga tgcttgctt gaacaagacc ctgagagcaa 180
 agttgcttgt gagacttgta ccaagactaa catggtcatg gtttttggag aaatcaccac 240
 caaggctaac gttgattacg agcagattgt tcgtaaaaca tgccgtgaga ttggattcgt 300
 ctctgctgac gttggtctag atgctgacaa ttgcaagggt ctggttaaca ttgagcaaca 360
 gagtctgac attgcacaaa ggggtcaggg tcatctca 398

<210> 5354
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-G11

<400> 5354

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 aggaaagggt cagtagaata ctaagttggt atgttgatc atataatttc cataacttca 180
 ctacaagaac aaaagcagat gatccgactg cgaatcgta aatcatctcc ttcactgcta 240
 atactgtgat taatcttgat gggattgact ttatcaagt tgaagtctta ggcaaaagct 300
 ttatgcttca tcagattcgg aagatgatgg gtcttgctgt tgcaatcatg cggaattgtg 360
 cttctgaatc acttatccaa aagtgttca gcaaggatgt tgaatataac tggtaccaat 420
 ggcgccagaa gttgggcctt aacctgggac gaatgcct 458

gttttctctcc tcaagntct caatcentgc atcctcngg atttccaaca antccccctg 480
gacaaacgtt ctaatng 497

<210> 5357
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-G4

<400> 5357

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tgagatccaa tcatggcgga tgttgaacca gaggttgctg ctgctggagt tccaagaag 120
aggacgttta agaagtttgc cttcaaagga gttgatctcg atgctcttct cgatatgtct 180
actgatgac ttgtcaagct cttctcttct cgtattcgta gaaggttctc tagaggtttg 240
acaaggaagc caatggctct gattaagaag ctgaggaaag cgaaaaggga ggcaccacaa 300
ggtgagaagc cagaaccagt gagaaccac ttgaggaaca tgatcatcgt cctgaaatga 360
ttggaagcac aattggagtg tacaacggaa agacttcaac caaggttgag attaaacccg 420
aaaataattg gncacaactg gctgaattcc caaccaata caaacgggtc aaacacg 477

<210> 5358
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-G6

<400> 5358

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tgcttcaatg gccgaatttc cagaaccggg cactgtaaac cctgactcgg atctatcgaa 120
tggtcgagct gagaagcctg agatagacac ttcggtccg ttcgagtcag tgagagaagc 180
agccactcgt ttcgggcggtt ttggtttctg gagaccttct ctcaataaac tcccagatgc 240
ttctcaggaa aatatccaag aacctgatat catgggactc aaagcacaag ctttcgagct 300
acaaagagaa ctaattgtta aagaacgga aacgctagan gtgttgaagg agcttgaggc 360

gactaaagcc acagtcttaa agctgcanca gaaggaatga aanccttatga ggaggncaac 420
gttgagagaa agaagttgac aatcatatca aagncaaccg gtgttggtcc aaaaggatta 480

<210> 5359
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-G7

<400> 5359

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gatttcattg tgattttcta aattgaggat atgattttct gagccatggg aaggagaga 180
agaaagctta gcttgagctt gaattatgat tcatctgaga aatgcaggca aatgttgatg 240
cacatctcct gttgttcaag taaacttttt ctgattcgcc actacagtat cttgtccgtt 300
caatttctgt ctgattgatg gccttttttc gttcanaatc attgtttggt gttgatgaga 360
acacgggagc tgcaaactcat aggtatcaaa tgccaaagac gagtachtg cgtgaacatg 420
gtggacttga ctttgtattc agcttgctgg agaaaatttc atcgancatt ggggtgtgaaa 480
agacagtttc cttcanaata atcagactct cggttc 516

<210> 5360
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-G8

<400> 5360

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gtgatgaaac atggagccat gaggttggtta tatcgggttaa accgttgaaa gtcgaaaact 180
ggatacttcc agaaatgccg gggctaata cagacttctt gatctccctc gatgaccgat 240
ttatttactt tgtgaactgg ctccatggag acattcgtca gtacaacata gaggacccta 300

aaaaccctgt attaacaggg caaatttggg ttggaggatt actacaaaag ggcagtcctg 360
 ttaaggcggt tggagaagac ggnaacactt tcaaattcga ggttcccaaa ttaangggga 420
 aatcttacga aggtggncct caaatgatca actgaaccn atg 463

<210> 5361
 <211> 499
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-G9
 <400> 5361

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 tgtcatgggt tggcttaccg acctccttta ccatcttcaa ctttgaaca caaaaagttg 180
 tcaagaactg gcagctattc ctttgtgttt gtgttggtct ttgggctgga ctctattattg 240
 gtttcgtcac tgagtactac actagtaacg cctacagccc tgtgcaagat gttgcagatt 300
 catgcagaac tgggtgcagct accaatgtta tcttcggcct tgctcttggt taaaaatccg 360
 tcattattcc aatctttgct attgctatca gtatattcgt tagcttcagc tttgctgcta 420
 tgtatggtgt tgctgttgct gctcctggta tgctcagta caatgccact gggttgggaa 480
 ttgatgctat ggcccatca 499

<210> 5362
 <211> 538
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-H2
 <400> 5362

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 ttccagcagc taccaggaa aagctgattg aattcttcgg aaaattgaag caaaaggata 180
 tgaactcaat gacagttctt gttctgggta aaggcgggtg cggaatatca tccactgtca 240

nnnnnnnnnn nnnnnnnnnn atttgaagtt tgaagtgaag aaacaatttc attttgcggc 180
gacgaattcg aattttccga tcatcatgc cgtccggtgc nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnccatggaa 300
gccaagatgg gaggggaagt gatagcagtt tgagttctcc tggttctcaa ggaaatcaag 360
aatttgggac taaaagattc acctgctcct ccaacctccg ctgtggtgaa aagggcctcc 420
taaagagata tcctaaagat gcaagngnta ctcaaggac taaganccaa aactg 475

<210> 5365
<211> 514
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-H7

<400> 5365
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catcctctgt ccttggnaca gacattgttc tcta 514

<210> 5366
<211> 452
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-G1

<400> 5366
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acggggttgac cggttcaagc ttggggaagg cgttatgcc a gcgagtttca aggtgcttca 120
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 agtagcacgc gtggattcag gattctggtg gatcatactt ctccgtgctt acacgaaatc 240
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 ctctctttgc ttatccgaag gttttgatac tttccctacg cttctttgtg ctgacggttg 360
 ttctatgggt gatangagaa tgggtgttta tggatatcca atagagattc aagctctgtt 420
 tttcatggca attgagatgc gcctgtcga tg 452

<210> 5367
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-D3
 <400> 5367

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 aacctagcgt gtgggacact ctttgttact ctcgtaacat tggtaacgga gatgtaacat 180
 gtgatgggta tcacaagtat aaggaagatg tgaagctgat ggtagacact aacttagatg 240
 ccttcagatt ctctatatct tgggtctaggc taatacctaa tggaagaggc tctgttaacc 300
 aaaagggtct acagttctac aagaacctca tcagcgaatt aataacccca tgggattgaa 360
 ccacatgtta cactgtatca ctacgatnat cctcaagtat cttgaaggat gaatattgga 420
 gggatgggtc aacaatatga tgatnaaaag acttcactgc ntaaggtana tgtttgttca 480
 a 481

<210> 5368
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 5368

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 atgaagattg aggaggatct aggtttcatc aacataactca aacgagcaac aaagcttcta 180
 tgtggtaaca tcaatcttgt tctcttctc ttcctttgct ctctccccct cttttgtttc 240
 ttgatcttct tcgagctttc actccaaacc actgtctcac tcgcttctca atacctcgtt 300
 cgacaactca ctaattggga ttactactac gttcctcaag atgcttccgt cttggagaat 360
 ctgattccat tgcttatcca agacatttct actctacttg tccccgtacg gcctcataga 420
 cctcttcaac aacaacacaa taagtcctcc gcctcctgga ctgggtcaaca cgttcn 476

<210> 5369
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-D6

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 cttttatccg ccggtgcac tccagcgatg gtccattccg tcggtgagat tcctgatttc 180
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 tcaatgaaag ctgccgctga actcgttct cagctccgaa agccttgggt tcttgatccc 300
 gccgccgtga gttgctccgg attccgatta aaagcgtggt tggagctcat cgagctaaaa 360
 cctactgtaa tcaaaggaaa cggttctgan attaatgctc tctcctctgc ttcacgttgg 420
 aaaaaactaa aggtgctgat aagctcacat gaatcaacan gacgtataa gaagctgcaa 480
 agtc 484

<210> 5370
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-026-Q1-E1-D7

<400> 5370

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gtgctctgct ttgatcacia cctgaaaaag ctgtgggaaa cgaatctgca ggaggatttc 120

ccacataatg cacaccatag agagatagca atttcgataa gcaattacac attgaagcat 180

ggtgatacgg gtttgggttat tgttgggtgga cggatggaga tgcagccata taatcacatg 240

gacccatttg aggaacttgg catgacagca caaaatgctg atcaacacag aagaagtgct 300

actgagaatc aggcctctga agattctgga gccataaact tgcgtcactt ttctgtctat 360

gcatttgctg gcaagactgg ccttcttcga tggagtaaaa agactgatga tgttgaagct 420

cacacctcag atgcatcaca attaattcca caacacaaat tacaaagctt gat 473

<210> 5371

<211> 505

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-026-Q1-E1-D8

<400> 5371

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ttttacgacc cgaactcagg acaagtttta ctagatgggc aagacctgaa gacgctgaaa 120

ctgagatggg taaggcaaca gatagggtta gtgagtcaag aacctgcatt attcgccact 180

tctatcaagg agaataact cttaggccgt cctgacgcag atcaagtcga gatagaggag 240

gctgctcgag tcgcaaatgc tcattccttt atcatcaaac tacctgatgg cttcgacaca 300

caggttgggg agagaggatt gcagctgtct ggtgggcaga agcaaagaat ancgatagca 360

agagcgatgt tgaanaaccg ggcgatactt cnattanatg anggcgacca agtgcattgg 420

nttcnggatc canaaaacnt tgtanaaaag ggtttggttt gtttcaagat tgggagggct 480

acccaacat tggccaang ccttt 505

<210> 5372

<211> 467

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-026-Q1-E1-E1
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 ctctctcaaa ctgcagagt aacagattcg ataatgggag gaggatttag agttttgcat 120
 ttggtgaggc cattcttggc ttttcttcca gaagtcaaa gtgctgacag gaagattcca 180
 tttagagaga aagtgatcta cactgtcatc tccctcttca ttttcttgt ttgtagtcag 240
 cttctctct atgggatcca ttctaccacc ggtgctgac cggttctattg gatgcgtgtc 300
 attctcgcat cgaatcgtgg aacgggtgatg gagcttggtt ttactcctat tgtcacatct 360
 gggattagt atgcaactct tancaaggtc aaagattant gagngtgaca acaatgttcc 420
 gtgaaggatt gtgccccnt gaatggtgct caaaaagctt cntgggg 467

<210> 5373
 <211> 517
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-E3

<400> 5373
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 gcctccagtg ttctcaataa tggcgaaatc tctacacttc acaagactaa tgtcttcttc 120
 agcaagaatg tcaatgactt ctctctctt cttctcttca gtcaaaccat ggagaaacat 180
 ccataaaccc tacttggtt ctctcttctt ctccacaaca tctactcgat acccacttca 240
 atacgacatg atcatcaatc gtccacaca atcatctctc tctcaaaacc gtcgtcgtcc 300
 ccctaaagcc atcgaatccg gtgcacctga ctgagcagag ccggaattcg attcatgggt 360
 cgacaatana ctgggctatg gagcgtgaac agggctgacc cggttctggg agattcggga 420
 aaatgggata aaagccaaag aaggaaatac tacagttnag gagaaaggan gaagactata 480
 cggggtcctg aanttctgaa agaatgaaga aacaagt 517

<210> 5374
 <211> 483
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-E8

<400> 5374

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aagaaatggt tatgattaga tggatggcat ggaggaaaga agatatatcg tcctcggtcg 120
attttcgctt ctccaaagac ccatttggtc ctctggtgct ttctcgagaa accgattcga 180
gattcatcat catcattcat cttaaaggat tcaaaaagga aggtattgaa attgatataa 240
acgaagaggg aaataggatt acaattagag gaagaaaacc agtgaagaa atggtatgat 300
tagatggatg gcatggagga aaagaagtgg aatttaatgt tttcaagaaa gtttttaagg 360
attcctgata ctgtcgattt agacaaagat taaagcnaag nttgatgacc aatgatccga 420
ctccttacga tttacaatgg ccgaaaagat taaaanggaa cccctgggat ttaagaattg 480
ngg 483

<210> 5375
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-E9

<400> 5375

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gaagaaggat caaaggcgcg acaacaatgg cgacaggtaa aacagtgaag gatgtctctc 120
cacacgagtt cgtcaaggct tacgctgcc atctcaagcg ttccggcaag attgagctgc 180
ctctgtggac agacatcgtc aagactggta aacttaagga gcttgctcca tatgaccctg 240
actggtacta catcagagct gcttccatgg ctaggaaggt ttacctgagg ggtggtcttg 300
ganttggtgc cttccgtang atctatggag gaagcaagag gaacgggaag ccgtcctcct 360
cattttctga aagaagcant ggtggtgttg ctcgtcacat tcctcaagca actccaagac 420
catgaancat ttgttgacct ccacaacaaa ggggtgggaa aggaaaaa 467

<210> 5376
<211> 469

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-F1

 <400> 5376

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 ncaccaccat ctgtacaaag caaagttatc atcaaaggaa accaaaccat tctgagtttc 120
 aaagctatct tccggcttgg tttcttcagc accaccaatg gttcctccaa ttggtacttg 180
 ggtatctctt acgcttctat gccaaactccc acccacgttt gggtcgccaa tcgaatccga 240
 cccgtttcgg atcctgactc ttccactctc gagctcacct ccaccggata cctaatecgc 300
 agtaacctcc gtgacggcgt cgtttggcag acggataaca aacaaccggg aaccgatttc 360
 gggttctctg aaaccgggaa tcctgatttg attaacgacg acggttcccg ggtttgnaaa 420
 actttgacaa tccgacngaa acgttggnntt ccgggatnat gtcacgggc 469

<210> 5377
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-F3

 <400> 5377

 acgcgtccgc aaaacctttt tcttctctct aaccaaaca gaagaggact ccattttcgc 60
 aagaatgggg aggcttaagc aatgttggtc aagtctgcta gtattggcag tgttggtgat 120
 cggaactgga gccgttccca tcacttatct ccaaagcgcc gtcgctaaag gagccgtgtg 180
 tttggatggg agtgcaccag cttaccattt tgacaaaggg tttggttcgg gtgttaacaa 240
 ttggatcgtc cacatggagg gaggaggatg gtgtaccgac gttgcttcat gtaatgaacg 300
 taagggtaca atgaanggtt cttccaaatt catgaacaaa gactttggat tttccggtat 360
 cttgggtggc aagcaaagca ctaaccaga ttctacaatt ggacagaatc caagtacata 420
 ttgtgacggn tatecttacc ggnatgtana accgttaacc ggaaaca 467

<210> 5378
 <211> 501

<210> 5380
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-D2

 <400> 5380

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 ggatttgcat agtgattgta atcacggttc gacagcaatt caatccgttg caaatcggta 120
 ccaacccgtg gaacaattaa cggactttta aaagttgctt gatgatgaat tcacaaagct 180
 caaggctaca ccttcctcag tgccacaaaa tgatcatttg atgcgccagt tcagggaagc 240
 agtttggaat gttcatcatg caggtgaacc aatgcctggg gacgatgatg aggacattgt 300
 tatgaccagt actcagtgcc ctcttctaaa catgacatgt cccttgagcg ggaaacctgt 360
 cactgaatta ncagattcaa ttgcgagtat ggattgcaag gcacgtctat gaaaaatcct 420
 gtnatcctgc attacatang tcaacaatcc aaatgcgaaa ttgtcctggg ancaagggtgc 480
 cgag 484

<210> 5381
 <211> 480
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-B2

 <400> 5381

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 ctttctgaag caatatcttc agaaaacaaa ataaagtttt tatttgattt tcttattacc 120
 atattatata ctattaaata agaaattcaa agtttttttt ttccattctt tctttcttcc 180
 ggaggaggga gagtatgata tgggtctttc acgtgtgaca ttgatgagat gatgaattca 240
 aattatatct cataccaaaa aaaaaacaca accaagagaa agaggcgtaa ccttctgatt 300
 tctttctttt aagatatcaa taaaatcttt cacattttct aatttttaat tcttttcaag 360
 attttgttgt cccttcaaca atccatcaga agtagcagtt tggtttccaa gttaagttcc 420
 tacgacctga ntcagaaaac aagggactat ggnactcaag tgagccaaaa agaactctcc 480

<210> 5382
 <211> 483
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-B4

<400> 5382

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ttttctagtg tttcattttg 120
 atccttcgtc ctctctcngg agattttctca aatctcntca antattttga tttgccgcca 180
 tgtatcgacg cgccacttcc ggcgtgcgtt cggcctccgc aaggctttct tcttccctct 240
 ccaggatcgc ctctancgan acagcttcng tttcggctcc atctgcgtcg tcgcttcgca 300
 atcagacgaa ccgatctaag agttttctct cggctctccg ctcttttnga agtttgctct 360
 ggntccaagc ggtggagcca atgggntgga agctggggga tngccctgct aaccnttcgg 420
 gctcaaaacta agggatttca ntcccggttt atgggnggaa antttggaac gggaaaatac 480
 tca 483

<210> 5383
 <211> 519
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-B8

<400> 5383

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 ggtcactgtg ccaggtgctc ttgcacgtga tttgattgag caggctgagg tggaagttga 120
 taggcttgac cagctgaaag ctagccgaat gaaagaaatt gcgttcaaga agcaatctga 180
 gcttgaagag atatatgctc gtgcccattg agaagttaac ccggaatctg ctcgtgagag 240
 aatcatgtcg ctgattgatt ctggaaacgt tgagcctact gaattattgg cagacatgga 300
 tagccagata tcaaaggcta aggaagaagc atttagtaga aaagatatat tggaccgagt 360
 cgagaaatgg atgtcagctt gtgaggaaga gagctggcta gaagactaca atcgggatca 420

tgctttggca aacggtaatg gaagngcccc cgggattgnc aggatttngt tgggaaaacc 420
 ggcccgggtg gttacaaanc tctaccanca tttttancca nnaaacaag gccngggaag 480
 cgcgg 485

<210> 5388
 <211> 475
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-C6
 <400> 5388

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 nataatggcg tcgatccctc cgccggagct tgacaacgac tcaactggcg catcgccgag 120
 atcggagtac gatagtcagc cacgcgtacg gttcatgtgt acttttggag gaaggatctt 180
 gccacgtccg ccggataatc agctctgtta cgtcggcggc gataatcgca tggtcgctgt 240
 tcatcgtcac actactttcg cctctctcct tagtaaaactt gctaaactct ccggtaaaag 300
 caacataagc gtgaagtacc agctaccaa cgaagatctt gacgcgttga tttccgtatc 360
 aacggacgaa gatgtagaga acatgatgga cgaatacgaa cgcgtcgcac aagaatcaaa 420
 acccacgcgc ctctcgctct ccgccttttc tontcaaaa aaacgtcgcc ggaga 475

<210> 5389
 <211> 493
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-C7
 <400> 5389

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 aacaaaaaat cgccagcttt atctctctct ttttcacatc ccatggctag atggtgacga 120
 cgattcacgc ataaactagg gttccccac aaatcatctt acacgtatcc tctattcctt 180
 ccttcctttc tccgtcatca tcatttttcc caccgacaac aatctctcgg agtttgggta 240
 ttattacttc tctcatcaac caattgtacc actagatctc ccagattcct tcattatctc 300

tatcaataat ggcgttgaag tctagttctg ctgatggtaa aaccaagaag ctctgttcaa 360
atcttcaatg gtgtttaant taatggttgc cttcctttac aattttgggg aagcaatggc 420
aaacgaaant gggggttttg gtaaaaagga gaacaagtaa ttggctcctt ggagaatgaa 480
ccaaacaagt ggg 493

<210> 5390
<211> 518
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-C8
<400> 5390

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ccaagcgtgg tgctgctgct cttgcacgtt tgaaggtgtt tgaggagta ccacctcctt 120
atgacaaggt caagagaatg gtcattcctg atgctctcaa ggtgttgagg cttcaggctg 180
gtcacaagta ctgcttggtg ggacgtttgt cttctgaagt tggctggaac cattacgata 240
ccatcaagga gcttgaggtg aagagaaagg agaggtcaca agctttgtat gagcgtaaga 300
agcaactcac caagctcagg gcaaaggccg agaaggttgc agaggagaaa cttggatccc 360
agctcgatgt tcttgcatcg atcaagtact gaagaaaatc agcatctatc ttttggttta 420
actcttgttt tggttttaac caatcagatt tgttttcctc ccttgatca ctgttgaagt 480
ttaacacctc aattcagttt aattatcagt tgatactt 518

<210> 5391
<211> 469
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-C9
<400> 5391

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn caactcgaca catttgacct agctccggtt 180

ccttccgagg catacgcctc ctctactact tcaatcccg cgttatcag cgacaaatat 240
 ctcaccggag ctgagtttat tggcgctcggg cttctcgata aaccggaaga tatcgcttat 300
 catcaagact ctaatctcat atatactggc tgcatagatg gatgggggtga aacgaagtca 360
 gtgttcaacg actcaagcta atggactcaa ttcgtttgag ggattgggtc aataacgggt 420
 ggtaagaacg gctcgggaat cngccttttc ggagttcaac gggggaaan 469

<210> 5392
 <211> 482
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-D1

<400> 5392

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 aacgagttcg cttacaatgt gatgatacac gggcatttta aaagaggcga aatttcgctt 180
 gttgaagcat tctacaatga gatgttgaga aatggctatg gaggaacaat gttaagctgc 240
 aatacgatga taaaggggtt ctgctcacat ggaaaatcag acgaggcctt cgagattttc 300
 aagaatatgt ctgaaaccgg ggttacaccg aatgcaatca cgtataacgc tttgataaaa 360
 aggattttgc aaagaaaaca aagggttaaaa aaggcttgaa actatacaaa ggagccttaa 420
 ggcctaagnt tngaagccct ccnggtatng catatgctgc actaatgaga aaatcctgaa 480
 na 482

<210> 5393
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-D11

<400> 5393

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agagagatat atagggaaat ttannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
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 agtgttatga tttctattct cttctatctt acttctgctc caccatttgt gatttgcctc 300
 tctcttgaag tcaccattga taaccattca ccaagcaatc tcaagactaa aggatcccta 360
 gaacaagata agttgagtca tcaaagata aatagcataa agcttcatgg cattctccta 420
 aggggtttcc atgggctttc ttaagccaat ggg 453

<210> 5394
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-B12

<400> 5394
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 ggctgccatg tggatacagt cttgtgctgg catcggttat ttgttcggaa gcatttctcc 180
 ggttatcaaa agctccttaa actataatca gaaggagctt tccagacttg gagtcgccaa 240
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 ggccgntctt cntgttggcg ncgttcanaa acccaaccgt tacngntggg tttggcttaa 360
 cgtaacggt cnaagcccga ttcttctctt aagggtacg tgtggtctcc aaggccttgg 420
 gaacaatggg gagaccn 437

<210> 5395
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-024-Q1-E1-G12

<400> 5395
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ttccgcaact gttgaacatt acagaaggaa aaccgcgata agccaaggac tgcgaaacga 180
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 tttagcagag gccttgaccg ggataggaca gaccgagttt ttctataccg agtttcctaa 300
 aagcatgtcg agtatcgag ctctcgttgtt cggctctanga atggcagtgg ctaatatctt 360
 ggctantgtg attctaaatg cggtaaaaga atttctcaaa agcanggcaa tgtnnagccg 420
 ggattgaaga taacatcaac aanggtcact atgactatta ct 462

<210> 5398
 <211> 527
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-A2

<400> 5398
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 gacaagaaaa aagaaaagga attaancaag ggtgctgaaa gaaaagatct gaatgctgac 120
 aagccagggt ctgatttaac tcctgggaat gcgagagagg aagatgaagt tcccaataga 180
 gagaagaatg tgcacaaagt tcagttatgg gctgagatca ggccatctct tcaagcaatt 240
 gaggacttga tgagtgtccg tgtcaaaatg aagggggatt ccacaaatgg cgagcaagaa 300
 gctcagaaat tgaattcctt agcctcaact gatgagaccg agtcttcaaa gggagtatgt 360
 gagaatgatt ccgaagacga gttctatgat gcggagatat cagatccaat tcaggatggn 420
 tcttcaaagt gcacaagttg tctccagcat gtctgctgcc gctnannaac tttcccnagn 480
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<210> 5399
 <211> 530
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-A4

<400> 5399
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acgcgtccgc aaaaccctag atcgaaatct tatctctcta atctgttggt acagtccgta 60
gagtcattggc gtttagcatca accacgttgc cgacgaagtc cggattatct ctttgggtgc 120
cgtcttctcc gtctctcgct cgcgatttc ccgctcgttt ttctccgatc ggttctagaa 180
tcgcttccag aagcctcgtc actgcttcgt tcgctaacga gaatcgcgag tttgtgattg 240
ttgggtggagg aaatgctgct gggttatgctg ctagaacttt tgtggaaaat ggaatggctg 300
atggtcggct atgcattgtg accaaaagag gcttacgcac cttatgagag accggctttg 360
acaaaagctt acttgttcca acaagagaag aanccanctc cgtttactan gaatttcana 420
cttgcnttgg gaggtgtgga aaaaaggaaa ccacaanatt gggaataagg 470

<210> 5402
<211> 455
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-025-Q1-E1-A8
<400> 5402

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caatctgtct agctgaggac tttcagggat tctaccttta agcttgttgt tacgcaaadc 180
caatgtattc agctcgctta gcttggataa cgttttcggg atttcgccag tgaggttggt 240
gtgtgaaagg tctaagctct ctaccttctc aagatctcca aaactttgtg ggatnaatcc 300
aagagaactc gttgttggn aattttaaaa cttttangct ttgagattgc ctaaagaaat 360
tgggattctc cgtgtacctg ttcttgana atctaanaga gtgtaaangt agaagttccn 420
gccaaaanaa cttgtttgaa ttctccanct acaca 455

<210> 5403
<211> 522
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 5403

<400> 5405
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tttttggtg tagcctttgt cttctacctc tacagatacc cttcttcgcc atcgacggtg 180
gaacaatcat ccacttccat ctacaacatt tccgttaagg atattgaagg gaaagatgtg 240
agtttgagca agtttaccgg gaaagtgtt cttatagtca atgtagcctc taagtgtggt 300
ctaacacatg gaaactacaa agaaatgaac attctgtatg ccaagtacaa aactcanggg 360
tttgagatgt tancatttcc cttgcaacca atttgggtaa gtcaagagcc aagcaagcaa 420
catggggatt aanggaaccg ttttgcaata atctnaaagc 460

<210> 5406
<211> 516
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-025-Q1-E1-B2

<400> 5406
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aacgtccgcg aaaacgaacg aatcagtgtc ggctcttggg ttccgaacaa aaacaacatt 120
gtacgtcgga tccaaaaaac gcgcgttata taaacgctta atttctccag gattcttctt 180
ctgcttccgc cattgtctga aaatcgcgtc ttctgacaat gtgctgaaac tgagtcacgc 240
tccgagttag caaagtgaaa cttcgaagtt tctcttacac taatctcagg tttgggattt 300
tgtaagaaac cgcgtttaca aaatgttcaa gttgaagcaa tgggttgattt atttggtgtg 360
ttcgtttagta ataatgaaca canaaggact gtttgtcaat attacatttg ttcgaaacgc 420
aatcgcnaaa ngggccggtt gtttagatng aaantcacca tcttancatt tggntaaang 480
ttctgnaact ggaatcaata aatggttaag aaactg 516

<210> 5407
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-024-Q1-E1-G11

 <400> 5407

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 aagtatatcc ntatgtatct taatcagaca acagagattg caaaagaaat gtatttttca 120
 taaaactttt taattccgat aaaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa 180
 gcttacgtac gcgtgcatgc gacgtcatag ctcttctata gtgtcaccta aattcaattc 240
 actggccgtc gttttacaac gtcgtgactg ggaaaaccct ggcgttacc aacttaatcg 300
 ccttgacgca catccccctt tcgccagctg gcgtaatagc gaagaggccc gcaccgatcg 360
 cccttccaaa caagttgcgc aancctgaaa tggcnaatgg ggacgccgcc ctgttaccgg 420
 cgcattaaag ccccggnngg ttgtggtggg taaccccaan cgtgaa 466

<210> 5408
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-H6

 <400> 5408

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 tgcctcatgt tcttcatcag acctgttggt ggtcacaagc agatccgtcc cactgatgga 120
 gccagcttta ctttcatcta cgggtgtctgt cttctacttg ctgcctatct catgtccggt 180
 atgcttantic aagatctggg cgttggttagc cacaacgtaa tcaactgtgt caccattgtg 240
 ttgtttgtca ttentgttgt cncaatcttg ggtccaatca tgataagttt cttcacggag 300
 acaaacganc ctgatgacac aatagaagaa cctcttgtcc aaaacgagat naccatgaac 360
 caggactgca aacacctgat cnaatcttga gtgaantgga anatgagaag ccaaaagatg 420
 tagatttgct tcctgcctca ngagagacat aagaagaatt gccattt 467

<210> 5409
 <211> 449
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-H9

<400> 5409

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gtcgtctctc tctctttggt tgcgtccgatt ccagttcccc tctcgcctta gactcgtttt 180
tgccgtcacg cctctctact cttctttctag agccatggct catacaatct cacacgctac 240
tctcggntct actcaggcta actccgtcga tctcctaaga tctcattttc ggggaaggag 300
atcgacgtga cggaatggaa aggtgatata ctgcgtgttg gagtgacgga gaaagacatg 360
ggtaaaggat gtgaactcca agttcgaaaa ancccgantc tgaagaagct tgatggccaa 420
cttggggggg gcttttaacc gaagtcctcc 449
  
```

<210> 5410
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-024-Q1-E1-A11

<400> 5410

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gaacttatgg tgctcatgtc tttaaaccag agaacccttc ttacaaacag gtgtggcaaa 180
cggcttcact ttaccatttg gttcacactg ctgctcttgt ttctgctcct agcaccaa 240
atcccaacat ttttggtggc ttgttgactg ctggaattgt agccttttcc ggcacgtggt 300
atatggtagc gctgcgggag gacagaaagt tttcgacatt ggcaccaatc ggaggcttgc 360
gttcaatgct gcatggggca actttacttt ccaaacaatc ccataaccaa tctataatgt 420
caaatttgtn ggtcaagcct aaccaacat atgaactcac t 461
  
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<210> 5411
 <211> 459
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-024-Q1-E1-B10

<400> 5411

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agctctcaca gaaactacgc tgtgcgtaga gatatagcag atgcaagaga attttgtggt 120
tgcttcatct gtccagctga aaacgttggg ggtgtgattg gaaaaggcgg tggtttcatt 180
aatcagatca ggcaagaaac tgggtgctact attagagtca atacctcaga aactgatgat 240
gatgattgca tcattttcat atcatcaaaa gagttctacg aagatcaatc tccagcgggtg 300
aatgcagcaa tacgcttaca acagcgatgc agtgagaaag ttggtaaaga tgcaaagtat 360
ttagcaatct cctacgcgtt tacttgtatc gagttcccaa atcgggggtgt ctcantggna 420
aaagtggagc aattatatct gagatganga tgttacaag 459

<210> 5412

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-B11

<400> 5412

acgcgtccga aaaatggagg gaaccttctc gccgctttgc ttacgttctt cttcgaacct 60
ctgttacttc tccagtaatg tttcaccaga ttctcaccgt tctataggat ttacattgggt 120
tgattcgctc cggccaacga acttggtttc cctgcgaacg ggaaataaac gttcgtcatc 180
gtcttcacta cggctatttc tctctccgac tagaagcgt ctccgtacgc cgactatttc 240
cgcggaggag gtgaaagatg tcccgatgcc gaagattgat aagagcggcc gattaagcag 300
tctcagagcc gcacgcgagc tcgctcttgt aatactttat gccgcatgct tanaangntc 360
tgaccaattc gtctcttgag aanagaataa acgcaagaaa gaaaacctgg atacaanttg 420
acaanaattc ttgntgggat acaaacacat g 451

<210> 5413

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-024-Q1-E1-C12

<400> 5415

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tctgatctgt cttcttgggt cattcatggt agtggcgatt gcgngtgatt taacaccgga 120
gcgttattgg agcactgctt taccaaacac tcccattccc aactctctct ataatctttt 180
gactttcgat tttaccgacg ataanagtac caacntcnaa gtaggtaaaag gcggagtaaa 240
cgttaacacc cataaaggta aaaccggtat cggaatcgcc gtgaacgttg gcaacggaag 300
tgtactcgtg gacacangca aaggggcaaan cccggatgga acggaacaac aacgttaacc 360
gtttggcaan ccggaaaaaa ggtcaaccgg aagggtggcn ttcgcaantt caaaaaccgg 420
ggtnaaaanc ccnggttaaa aagaaancng acntttaggg aattccggtt taaaagggcc 480
ggttntttac cgggtggcaa caaagcccc 509

<210> 5416
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-024-Q1-E1-D10

<400> 5416

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ttctctctgc agtttgtctt tcccgaattg ataagtcagt cgcttctgca actgtgttcc 120
ttctgatacc caaaactttc catttgggat agtggcagaa ttagtggaag aagtaagcat 180
gagcaggggc gagcatgtat tgaactatct gaaacgtagg cagctcgaga atcctggttt 240
cttatatgca attgaggacg attgtgggaa tgttttctgg gcggatccaa cttgcagggt 300
gaattacacc tacttttggtg atacctagtc tttgacacca cctataggag gggtaaagan 360
gtatcaagtg caatttgctg ccttcaccgg gttcaaccat catgggaagc cggtcctttt 420
tgggtggtgc nccaaaatca acgaatccga ancccc 456

<210> 5417
<211> 457
<212> DNA

<213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-024-Q1-E1-D11

<400> 5417

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 ccatgcccta ttgatccttc tcagagaatc tcgaatggca tgtaaagaga tgtcctttac 180
 ttaaacaaac tgtagaattg tctgggtcaac gatttttatca gaagggtatt aatgctggga 240
 acgacgaana agaagaaaag atgggatctt gttctcttgt tacttcagag atgaagagaa 300
 atctgctcta tagtatgagt gtttctaagt ttcacagct tattaagaaa attgaggatg 360
 ttcatggcgg tatTTTgtta aagatatcca aaaatcctaa tttgcaacct gaaacctgtt 420
 acataagggt taataaggnc atagttagaa attacca 457

<210> 5418
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-024-Q1-E1-D9

<400> 5418

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 tgtgactgga gccttgcata ttggccatgc gcttacatct gcaattgagg atacaattat 180
 tcgttggaag agaatgtctg ggtataatgc tttgtgggta cccgggggttg accatgctgg 240
 tatagctaca cagggtggtgg tcgagaaaaa gatcatgcgt gatagaggca tgactaggca 300
 tgatgttggc cgtgaagaat tcgtaaagga agtgtggaag tggaagaacc agtacggcgg 360
 tacaattcta acacagctac ggcgactaag aaccttctct cgactgggtcc ccgtgaantg 420
 ttttacaatt ggacnaagca aaagattaaa aagctgtcac tgaaggcc 468

<210> 5419
 <211> 443
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-E11

<400> 5419

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tagtttgcgt aagcatgttc attccagtgg acttcacaag aagatcgaac tggtcatttc 180
gtctccactg atgagaacct tgcaaactgc tgttggtggt tttggtggag agggctacac 240
ggatatgagt gatgtactac ctctaattgt agcaaagtca ggaaatagca gccgtgcagc 300
tatatcgagt ttaaactgcc caccagttat tacagaggag tcctgcagag agcatttggg 360
aatgcatcca tgtgatcaga ggagaaatat cagcgactat cagtttcctt tcctgcagt 420
ttgactttca ctgatagaaa ncc 443
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<210> 5420

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-F12

<400> 5420

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cggcagatcg attcttccaa ttccttattc ctttctaggt cttccttaag aaacccttac 180
tttcttcaaa atctgcattt atggcgatta gggttacctt cacctactcc agctatgttg 240
ctaggagcat tgcttcatcc gccgggactc gtgtcggtac cggcgacgtt agatcatgct 300
tcgaaacatg ggttcgtccc aggttctgcg gccacaatca gataccagat attgttgata 360
aatctnccgg attcaacaca tgggggtccaa acncaaggcc tcgtgctcga caacttcac 420
aatgtatagc accaatgcga aggaaaacct cgaag 455
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<210> 5421

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-023-Q1-E1-H5

<400> 5421

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gcnatacttt gcctttgggc actctctgca acatctgaag cactaacaga ngctgaccca 120
ggtttgatga tgaacttcta caangacacg tgtctcagg ccgaagacat cgtccgtgaa 180
caantcannc tcctctacaa acgccacang aacaccgctt tctcttggct ccgtaacatc 240
ttccatgact gngccgttga gtcattgtgat gcgtcgcttt tgctggattc gacaaganga 300
gagctatgat aagaaagaac actacaagga gcttcggact taagaaactt ntacgtacat 360
cgangaagat naaaggggaag ctctcnaaga aggggaagtgt cctgggtgtt ggcncaatg 420
ttctggacan tccccgctcn tgctcngcaa agaagaaagg naatccaa 468

<210> 5422

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-023-Q1-E1-F12

<400> 5422

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tgctttgtat gtttgttttg agatcaaat ggcttcaagt gcttcaaagt tcatcaagtg 120
tgtgactgtt ggtgatggtg ctggttggtaa aacctgtatg ctcatctgct acaccagcaa 180
taaattcccc actgactaca taccaacagt ttttgacaac tttagtgcaa atgttggtgt 240
tgaaggcacc actgtcaatt tggggctttg ggacactgct gggcaagaag actataanag 300
attaaggcct ttaagttaca ggggagcaga tgttttcgtc ttgtctttct cattagncaa 360
ccgagctanc tacgagaatg tttttaanaa gtggatccct gaactccaac actttgctcc 420
aaggagttcc ccttgctcct tggttggtaca a 451

<210> 5423

<211> 481

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-023-Q1-E1-F3

<400> 5423

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ttgaagtttt ccgtcagaca attgcaggca acattctcgt gggcagttac tgtgccctat 180
ccaacaaagg tggaatggtc catcctcaca cctcagtga agacttggaa gaactctcaa 240
cacttcttca agtccctctc gttgcaggaa ccgtgaaccg tggtagtga gttatcgctg 300
cgggtatgac cgттаатgat tggacctctt tctgcggttc agacacaact gcgactgagc 360
tctcctgtca tagacaagca tccttcaagc taanggaaac ccaanccaac tctaacctca 420
atgagatgaa ggaaatcaat tgattcgaaa actaangttt aaaatttgtn tggtttgga 480
t 481
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<210> 5424

<211> 498

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-023-Q1-E1-F5

<400> 5424

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ccccgcggca tctgaattcc ttggaagcgg ccgtgtgaca atgatgaaga ctgttgccaa 180
gccanagggc ccatcangca gncatggta cggatctgac cgtgtcaagt ncttgggtcn 240
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gggaacaccg ccngacttta agctgnaccc cnagaacatt ccaaaggga ccgtgaacta 360
taaatttatc cacagcaang gtnggccaat ggctccggaa nccctaangc tgcngtcctt 420
ccntaagcc ttttgggcta agaaaacngn ntccaagntt cggaaantgc gggtttggtt 480
caaaggccgg gttcanaa 498
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<210> 5425
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-F6

<400> 5425

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 caagatcaag aaatccctaa acaaccctta ccacctcgcc tcatgggatc ccaaaaccga 180
 ctgttgctct tggtaactgcc tcgagtgcgg cgacgctact gtcaaccacc gtgtcacttc 240
 cctaatacata caagacggcg agatctccgg tcagatcccc cctgaagtcg gtgacttacc 300
 gtatcttaca tcccttatct tccgcaaact cactaacctc actgggtcac atccaaccca 360
 ctatcgccaa agctcangaa cctcactttt ctgagactaa gctggacaaa tctcaccggg 420
 tccggttcct gagtttctga gtcagctcaa gaatcttgag tacattgacc t 471

<210> 5426
 <211> 477
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-023-Q1-E1-F7

<400> 5426

acgcgtccga tcaaacccta aacctaanaac cccttatctt cccgccaatg tatcaatcca 60
 tgaatctatc agtttcttcc aatttcactc accgatcact cctcgaatca cgatttccta 120
 tattctccac cggattccgc aaatccgtca atctcaaacc tccccgtgtc tcatctggtc 180
 ctgaatccaa cgattcaggt cacgaaacct taaccgataa gcttatccat ctctcagag 240
 ctgttccaga ttgggcagac gagattaaag agcgtgggat gcagcaagaa acgctctctc 300
 tacacacacg agaaatgggt tgaacataga agctctcttc gccatgtgcg tcatctactc 360
 tcgagctttt ctacacgagt tatactctcc ctggattcca cctgtttcct cctcacaag 420
 cgtcgcgggt tgtgattggc aagctaacaa ctcccgccgg tgggcttggg attgggc 477

<210> 5427
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-F8

 <400> 5427

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 gatcggagcc ggaccagccg gtctcataac gtctagggag ctccgtcgtg aaggtcacag 120
 tgtagttgtg tttgaacggg agaaacaagt cgggtgtcta tgggtttaca cacctaaatc 180
 cgattccgat ccacttagcc ttgacccac cccatccaaa gtccactcga gcatctacga 240
 gtctctccga accaatgtcc cgagagaaaag tatgggtgtc agggacttcc cgtttttgcc 300
 acgtttcgat gacgagtcaa gagacgcgag acgttatcca aatcataggg aagttcttgc 360
 gtatattcaa gactttgcta aaaaatttaa aatanaagga gatgattcgg ttcgagaacg 420
 aagtggtcnc cnttgaaccg gttgacacgg aactggaggt caattcn 467

<210> 5428
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-G1

 <400> 5428

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 tcttctaagt ttctgagaaa ccgtagcttc tatggctcct ctcaatctct cgctctcat 180
 cggttcgcaa tcattcccga tcagggtcac tcttggtctg actctccaca caagggttac 240
 gtttgcagaa caacttattc attgaaatct ccggtttttg gtggatttag tcatcaactc 300
 tatcaccaga gtagctcctt ggttgaggag gagcttgacc attttcgctt gttgccgatg 360
 aactgtcact tctaagtaat aagttgagaa aaatgggtact tgccgaaggt tcaaagcttg 420
 ctccgcggcg agtacttctc aaaaaggggt gttcaaagga aacaanttcg ttc 473

<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-G9

<400> 5431

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aactttccgg ttaaccggaa ttggtccacc ggcgcggat aattctgatc atcttcatga 180
agttggttgt aaattagctc agcttgcgga ggcgattcac gtagaattcg aataccgtgg 240
attcgttgct aacagcttag ccgatctcga tgcttcgatg cttgagctta gaccgagcga 300
tacggaagct gttgcggtga actctgtttt tgagctacat aagctcttag gtcgtcccgg 360
tgggatagag aaagttctcg gcgttgtaga acagattaaa ccggtgattt tcacggtggt 420
tgancaagaa tcgaacataa cggacc 446
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<210> 5432
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-H12

<400> 5432

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gaaggatgga tcaagaaact tgaaataaca aatagatcag gccgtaaaac cagaagagat 120
ccattcttca ttgaccctaa aagtgagtat atctttcaat cttcaaaga cgcatacagg 180
tatgttgaga ctggcaatat tggacattat gcacgtaaat tgaaagaaag tgatatcgaa 240
gatgatgatt ccggaaatgg aaagactgtt cttcgtctgg agtatgtgga caagagatct 300
gcaaatagatg tatttgaaaa agagaaaacg atagatgatg tcaagaagaa gtaaaccgng 360
aaacttatct tcctccgatg aacattccaa gaattgtnaa atgacttctg acttgagcat 420
tgtaacctca caagttcttg aggattgggg a 451
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<210> 5433

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 <211> 428
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 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 aggtgctcaa gtaacagctg tgccagaggg gaagctaaaa ggcctagtat atgtgaatga 180
 gcaatttgat ggatggagag ctactgcct gcggattctg caaagtagat ttgaccagca 240
 aacctgtant ttccccccgg atacagagat gcttgcanaa ctnagtgcga cattgttgca 300
 ngagggaaaa aacttgaaag ccattcaaaa ggtttgcatg cctttcctta aattcaagaa 360
 ggacgangca atatctattg gcactcaggc tctgaacttg acggttacct tttgganata 420
 tcaaagtc 428

<210> 5436
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 5436

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 gaccttcnaa ccggtcaata cntcgacag attcgactcg gtgactcacc ggatccagtc 180
 aagctcgtag tcnatctggc eggctcaatt ctctggtttg attgttcctc aagacatggt 240
 tcctcgtaaa ggaaccta atccggtagc tctagcggct gcttaaaggc aaaagttgga 300
 aatgaacgag tatcatcaac atcatcatcc gcgtaaaaga caaaaacgcc ggattgccaa 360
 ataacttggt aaaaaacgaa ncctttgggg gaataacggc gaagaaggan aannttttta 420
 agtgaacgtc aatgtnnngt tgggtcctgg ttaaantnct cccggggaaa acgtttgatt 480

<210> 5437
<211> 525
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-F8

<400> 5437

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tgaagcgatt tgggcgtggt cgattgaaga actagggctg gagaatgagg ccgagaaacc 180
gagcaatgcg ttgttaacta gagcttggtc tccaggatgg agcaatgctg ataagttact 240
aaatgagttc atcgagaagc agttgataga ttatgcaaag aacagcaaga aagttgttgg 300
gaattctact tcaactacttt ctccgtatct ccatttcggg gaaataagcg tcagacacgt 360
tttccaagtg tgcccgatg aaacaaatta tatggggcaa ggagataaag aacagtgaag 420
ggagaagaaa gtgcagatct tttcctaagg gaaaccgttt aaagaagaat aatccccggt 480
aaataangtt caaccttccc gtttactcaa cgaagaaacc gttgt 525

<210> 5438
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-G1

<400> 5438

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acggaaatta ccaatactcg tttcctcgta gcattggatt tttaaagctg ttgattccag 180
ctttgttgag gttaaagcaa ctatgaagcc tgttcttcac tcgggttctt catccaatgg 240
attttcacac aggagatttg aaaaggaggc atggatgaat aacgcacagc cttctgttga 300
caatacagaa aacggttggg acgctgaaag tgtggataac ctttctcaag aagctgttaa 360

gtgtattcaa caactttgta ataatgggnc aatcanggta agaaattcaa cccaaaaatg 420
 ggttctgggt taacancggg naataatttc aatggctggc taaatggtgg agaaaggant 480
 tt 482

<210> 5439
 <211> 524
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-G10
 <400> 5439

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 cttacgggaa cttccacaca tatacatcca caagaacca tatcgaagat tcctcctaca 180
 tatatttaca tggatcagta ctcatcctct ttggctgata cttcattaga tctcactatt 240
 ggcgttactc gtatgcgagt tgaagaagat ccaccgacaa gtgctttggt ggaagaatta 300
 aaccgagtta gtgctgagaa caagaagctc tcggagatgc taactttgat gtgtgacaac 360
 tacaacgtct tgaggaagca acttatggaa tatgttaaca agagcaacat aaccgagagg 420
 gatcaaatca gccctcccaa gaaacgcaaa tccccggcga agagaggacg cattcagctg 480
 cgcggttatt gggcggagtg tcggagagta gctcaacgga ttaa 524

<210> 5440
 <211> 514
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-G12
 <400> 5440

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 gcagactcaa cttcccgttg ggcagaagca ttaagagaaa ttccaggacg gctggctgaa 180
 atgcctgctg acagtggata tccagcctat ctagcagcac gtttagcatc tttctatgaa 240

cgtgctggta aagtaaaatg tcttggtgga ccagaacgta acggaagtgt tacaattggt 300
 ggtgcagttt cgcctcctgg gaggagactt ttcagatcct gtgacttcag caacccttag 360
 tattgtgcaa gtcttctggg gtttggacaa aaagcttgcc caagagaaaa cattttccct 420
 ctgttaattg gggtgatttc ttactcaaag tattcaacgg nactgggatc cttccaatga 480
 naagttcgat tcaaatttca tcaacatcan gaca 514

<210> 5441
 <211> 504
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-G3
 <400> 5441

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 gccctttttt tttttttttg gagntacaat gcnatgaatt ccaaaccaga taagattcaa 120
 ataaancaga gactaagaag gctgttcaaa cagtaataat tcttgcnat gancactaaa 180
 ccagaacgat aacangaaac aaagatacag tcagtactca ctagtttgag ggcacctacg 240
 gnaagcaagt aatactacag atggtagacg ttccagtgtt taatgatgaa acatcatcag 300
 tacaagcaaa cgtgtttttt atcatacacc gtatcacttt cacaagtggc tgcagtcatt 360
 ccgcancata angagattga cttcgataat caacatcaac tttgcgcana ngancagggc 420
 taccatgaga tggggaactc tcattgctac gcctttcaag gagacatctc cttaanaang 480
 gnaaggcttt tgcaaagcaa ggct 504

<210> 5442
 <211> 491
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-G4
 <400> 5442

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 gattcccaact tctttcttct gttttcttct tctcttctt taaattggat gttttgggca 120

agaaacagag agaaacacgt taatttgaga gtttgtcatt gaatatttgg tttgcaatgg 180
aaagagatTT tctgggTTtg agcgacaagc agtatctaag taataacgtt aagcatgagg 240
ttaacgatga tgctgtcgaa gaacgagggt taagtacgaa ggcagctaga gaatggggga 300
agtcaaaggt ttttgtact tcaagtttca tgccttcttc agatttccaa ggaggctaag 360
gcgTTtccgg gtgcatacca atggggatca gtttctgcgg gcaatgtttt cccgcaaatg 420
ccaatttggt ggtgcgtttc aaaacgcgac gccgcnttta ctaaggnggt tcaattncct 480
tacaactcaa c 491

<210> 5443
<211> 467
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-G5
<400> 5443

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tatatgatat aagcttttct tagcagtcct acccttcttc tctcgagaga gctccattcc 180
aatcaaagct gtaaacacac ttcagaagat ggagatcact aacgttaccg agtatgatgc 240
aatcgcaaag gcgaagttgc ctaagatggg atatgactac tatgcatctg gtgcagaaga 300
tcaatggact cttcaagaga acagaaacgc ttttgcaaga atcctcttcc ggctcggga 360
ttttgattga tgtgaacaaa attgatatgg cgaactaacg gtcttggggg ttcaaagatc 420
tccgatgccg attaaggggtg gctcccactg gccttcaaaa gaatggc 467

<210> 5444
<211> 466
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 5444

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gtggttatgg aaacctatac acagacggct acaagacaaa caccgcggcg ttaagcacgg 120
ccctgttcaa cgacggcaag tcatgcgggtg gatgttacca aatcttgtgt gatgcaacca 180
aagtaccaca atggtgtctt aaaggcaa atcaactat cacagctaca aacttctgtc 240
caccgaactt tgctcaggca agcgacaatg gaggttggtg caaccaccg agacctcatt 300
tcgacatggc tcagcctgcg tttctcacca tcgctaaagt acaaaagctg gaatcgctcc 360
cattctttac aaaaaaagtt ggatgtagaa agaaacggag ggatgagatt acaataaacg 420
gtagaaacta atttcaacct ggtcccatct caaacgtaca agaggg 466

<210> 5445
<211> 466
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-H1
<400> 5445

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tctgtagcag cagagcatga ttacataggt ttgtcagagt ttccaacat ggaagcaaca 180
acaatgtctg acaaaaccaa aaccagagac aataacaacg gtctcaattt caaggctacc 240
gagttaagac tcggtttacc cggttctgag tcgccggagc gagtcgactc aagattcttg 300
gctctcaaca agagtaactg tcccgtgtca ggtgccaaaa aggggtgttct ccgacgctat 360
taaacgaact cctaacaat gggtcctctc tcctgggatt cactactggc tactggtgat 420
gtcgggctcc ggggttcngg tcccgtacc tccgtcgnnt aaagaa 466

<210> 5446
<211> 476
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-022-Q2-E1-H10
<400> 5446

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cttgatgaga gacaagaagt gttgatgctt gtcacaaatt cgttaaaaca agatcttaat 180
 cactcgaacc agtatgttgt aggacttgct ctctgtgctt tagggaatat ttgttcagca 240
 gaaatggccc gtgatcttgc gccagaagta gaaagattaa tccagtttcg tgaccctaata 300
 atccgaaaga aggcggcgct ttgctctact aagaataata aggaaagttc caagatctaa 360
 caagaaaact tcgtaaatgc tggctgcttc ttgcttaaaa gaaaagcatc atgggggttcc 420
 tataacaagg agttcaactt tgttatgaat tatgcacgaa ttaatggatg aagccc 476

<210> 5447
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-H11

<400> 5447
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 cctagctcat catcttctac taacaatctc tctcttctc tcgatatgaa tgatctcgct 180
 cgtaatctct tccctgaaca accagagacg agttctattc cggtttcagc tcctcccgct 240
 gcgacggagg aagtaatttt gaaaatctcc ggcgcgattc ttcatttaac cgacaaatct 300
 tacagcgtcg agctcgcttg cggatgatctt gagatcatcc gtattgttca aggagagaat 360
 gttgtcgctg ttctccgcta ntgtctccga tganaatcaa tgggccggtt gactaaagga 420
 tnaagaactc tgtcaangtc gatgaagtct caattaattt cttcangcct tcgt 474

<210> 5448
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-H12

<400> 5448
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tcgttaattc cgataagggtc aaaatccaca ttcaccggat ttcgatcgag aaccggtgtt 120
 tattttaagca aaacgacggc gcttcagtcg tctacaaaac tgagtgtggc ggcggagagt 180
 cctgcggcga caattgcgac ggatgattgg gggaaagtat cggcggttct gtttgatatg 240
 gacggtgtgc tttgtaacag tgaagatctt tctagacgcg ccgccgtgga tgtttttacg 300
 gagatgggag ttgaagtcac tgtggacgat ttcgttcctt ttaaggaac aggtgaagcc 360
 aagtttttaa gaggtgttgc ttcagtcaaa gaagttaaag gatttgattc aaatgcaagc 420
 taaagagaan atccttgaaa tatatccccg ataagtatgc gaagc 465

<210> 5451
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-E1
 <400> 5451

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 aaggggcaa atctttcttc cttcgtcact ctaattgagt tgactaaaca cagttcgagt 120
 tcgagagaca atggatcttg ctaagtttct gtgttggtt gttttgctac tgggaatctc 180
 actcgtagaa tcaaggtaca tgggtctaaa tacttcacat accattgttc ctggaaaact 240
 taatgtccat gtgggttctc attctcacga tgatgttggt tggctcaaga ccgttgacca 300
 gtactatgtt ggctccaaca actctatcca ngttgcttgt gttcaaaatg tactggattc 360
 aattgttctt gcgctgttgg ctgataagaa tcgcaaattc atttaagttg aacaagcgtt 420
 ttttcaaccg gtggtggnat gaacaaagt agagagattaa a 461

<210> 5452
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-E10
 <400> 5452

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 atgatccgcc gctaagccac gtcgttcttc cgatttcaca acctaatcgc ttctgtaact 240
 ccgcaatgtc ttctttcttt cccctcccga cttctctctc caacgaaagc acgaggaaga 300
 aaccgtacca aacgtcgtcg tttcgaggga tgggttgcta tgccgcagca gcagcagcag 360
 ctcaagaggt ttctgttccc tccgtcattc gctactccgc gggatttggg atgccagaat 420
 tagaaaagat aagaagaaga agagcataag cataagaaaa agnagaa 467

<210> 5453
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-E11
 <400> 5453

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 tggacattac ccacctgtc aaggangtta cctctctcaa gggtaccac cacaacaagg 180
 gtatcctcca gctggaggcn acccacctgc eggatatact cctgntgctt accctgctgc 240
 gcccggtggt tatecncctg cacctggagg ttacctctct gctggctatc ctgcacctgg 300
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 ggtgcagccn caacagctta tggagctcac atgttgngtc acnctctca caaccttact 420
 ggcattgctgt atgacatgga nggtatgggc atgcctgnc attgg 465

<210> 5454
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-E5
 <400> 5454

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 tgatcctagt cctgttaaga tcaatttggg tgctgggtgcc taccgaactg aggaagggaa 180
 gcctcttggt cttgatgtgg tgcgtaaggc agagcaacag ctagtgaacg atccgtctcg 240
 ggtcaaggaa tacattccca ttgttggtat ttccgatttt aacaagttaa gcgccaagct 300
 catcttaagt gctgacagtc ctgcgattac agaaaagtta gaagttacta acaagtccaa 360
 gttgcttgtc tgggtaactg ggttccggtt gaagaatttg ggggcctgaa gtttcctcaa 420
 aanacacaac taaccaacna aaaggtggtc aanttaacaa ttcccaaaaa nccaancctt 480
 ngggggggaa aaccaatc 498

<210> 5457
 <211> 507
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-F1
 <400> 5457

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 cctcagtaga tccacaattt gtaggcaatg ggtttggtca agaatactat aancaccttt 180
 atgattcaac ctcggaagta cacaaattct atctcgagga tagtatgatt tcacggcctg 240
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 agaatggtgt tgtaactcta agtcacgggt ttaagtgatc gggaacgatg gangaaagga 420
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 tgataacctt angtaagtgt cctgaag 507

<210> 5458
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-F10

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ctctaatacna attcaagaat gagtttgaat ctgacggctg caaccgcagt gactacttaa 180
acggagtcca gtgtgataac acgactgggtg cggtcacgaa gcttcagctc ccaagtgggt 240
gcttcactgg aactctcaaa ccaaacagta gtctctttga gttgcatcag cttcgttacc 300
ttaatctctc tcacaacaac ttcacttctt cttcactccc ttctgaattc agcaatctca 360
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ttagtaacct tatcctgcta nccaattaaa cctttcccat aatgag 466

<210> 5459
<211> 514
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-F12

<400> 5459
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gtcatgtcca cctctttctc tgtctgggtg aagttgctcg cttctgatga atgattgcag 180
tcaatacgat gttgaagggt tgcagaagga gtctcactat gaagtggaag agctcaagcc 240
agaaaaagtt atgaattctt caaacttttg gatgggttgc aaaatgcatg actttcctgt 300
caaagaagaa gtcccagcag gaaactcgga attcatgaga aagagaaaagc caaacagaga 360
tctgaacact attatggaca gaaccgtttt cacctgcgag aatcttgggt gtgcgcacag 420
cgaaatcagc cggggatttc tggatangaa ttcgagagac aaccatcaac tgggcatgtc 480
cacatcngag acagtcgctt accgtatggg agca 514

<210> 5460
<211> 525
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 5460

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gattctcaga ccctaaaaat ataatgtcca tgaaagggat ctcacagca gagtcagata 180
agctctctag gagaatatct ttgaccaca agcgcaattc cgaagagctt gacgtgtttg 240
aagctgccgt gtacttcggc tacaatgaag cctcctccgg tgaccatgga catacacaaa 300
agtatggcta taacgcagcg agagaggaga atccgaggag atggggaata ttaggaggtg 360
ggaagaagaa tcagcttgga ttttgctat taagatgctc agaacaaagt gtaccatcct 420
tcaacaaaga ttatcatgaa gaagcacgaa agttncaca atcaaaggag aagactttgg 480
taacgttaga cacaaagcaa accgagttna accaaggtgg ggaaa 525

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<210> 5461
 <211> 516
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-F4

<400> 5461

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tgccaccgag ccaaacacca tgttcgttca agcagacccc tctaatttcc gtaacatcgt 180
ccaaaagctc actggagcac caccgatat ctctctctca tccttctccg ccgtctcagc 240
cgcacaccag aagcttccat taactcccaa aaagccagcg ttcaaactcc acgaacggcg 300
tcaatcatca aagaaaatgg agcttaaggt caacaacatc acanacccta acgacgcttt 360
cagccatttc accgaggatt cctcgtctct cccgtctctc aactagaccc aatttggggc 420
gcgcgttaag ttcanattca agcgcgttga gggaacaacc aacgccgcaa accgggncaa 480
aggangagca aaaaagncaa tagcgggaaa aaaggg 516

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<210> 5462

<211> 450
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-F5

 <400> 5462

 acgcgtccgc ggacgcgtgg gtgaatttat attatgaatt tatattatgg ttttcactag 60
 tgtagaaat acatgtttgc cattccattc ccaacnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn ntgtattctt ttttagttgt taataaaata natgtttcct taccaaactt 300
 tttttttttt gcagatttta ccgncgagaa nagtaccac gtccaagtan gtaaaggcgg 360
 gagtaaactg taacaaccat aaagggtaaa ccgggtagcn ggaaccgcc gttgaaactg 420
 tgggaaaggg aaggtttcgc cgtgggnaca 450

<210> 5463
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-D8

 <400> 5463

 acgcgtccgc gatcttctcg attctccaat tccaaaccct aacattttga ttagtccttc 60
 tgggttccca cagccttgag agattcggaa ccaatgatga tgcgtgctgt tataaggaga 120
 gctgccagta atggctcttc tccttcgtta ttcgcaaaat cactgcagtc ttctcgtgtt 180
 gctgcatctt cccctagctt gctatcaggt tcagaaacag gggcatatct gcatcgtgga 240
 aatcatgctc atagctttca taaccttgct ttgccaggga actcgggcat ctcgaggctg 300
 gcgagtttag tttcttcaac cctgcaaaag atgggtcang cctttttcag ctgaaactgg 360
 gagataccgt ggaaagcant tgtgcctcat atggggaatc aattactgat gggaacttgg 420
 gcaccttctg agaaactggg gagagatcaa gntgat 456

<210> 5464

<211> 463
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-B5

<400> 5464

acgcgtccgc ggaacggtgg ggaagagaaa caacaanaag tantaatggc ttcctctatg 60
 ctctcctccg ccgctgtggt tacatccccg gtcattgcc accatgggtc ctccattcac 120
 cggcttgaag tcatccgctg cattccccgt caccgcgaan accaacangg acatcacttc 180
 catcgcaagc aacgggggaa nagtttagctg catgaangtg tggccaccaa ttgnaagaa 240
 taagtttgng actctatctt acctccctga ccttagtgac gtcganttgg ctaangaant 300
 tgactanctt ctccgcaaca agtggattcc ttgtgttgaa ttcganttan agcacggatt 360
 tgtgtaccgt gaagcacnga aacactcccc gatactacga tggacngtan tgggcaatgt 420
 nggaagcttc caatgtttcg gatgcaacga ctccgctcaa agt 463

<210> 5465
 <211> 457
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-B7

<400> 5465

acgcgtcccg caaaaaagag agaaggagag gtcgtgtagg ataattagag cgcacttgcg 60
 agcaacaacg aacgacgacc cactgattca atctcctcct ctctgcatat tccttggcat 120
 cttttctggt accgaagctg agtctctgga gagtttctag atcttcttca attctgcaat 180
 tcagagcgaa gatttattag tgattgatta ttactctggg agctcgagtt ctggatccgt 240
 gtggctggag ggaatgttct gttaagctga ttgtttatgc ttgttggatc agtatagaaa 300
 ttgtcagatt gagaaagaca acaaataag aacggataaa ctgagtgcc tgcatgtcat 360
 tcaaaattgg tctctcctgg taacaaaact atttctaagg gctatgacga acacaaagan 420
 taaggatatcc tcaaaacaac gttgtcctca atgtcct 457

<210> 5466

<211> 433
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-B8

 <400> 5466

 acgcgtccgc ccangcgtcc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnngt ttccctcaca tcctcctcct cctccgcctg atgagttgtt tgacatttcg 180
 actacagttg atcctagcta tcttatttca ctgataagga aactccttcc aattgattcg 240
 ggaagtgcgc aacgacataa tgatcatatg aatacggnta atgtgggttca nggtgtagta 300
 gctatatctg gaaatggggg tgttggagac ttccaatggt gatcaaagga gcatggacat 360
 tggggataat catgatgaat ccacttntga ngtggggggg ngacgggttan ttcattgtcca 420
 agcgccgggn aat 433

<210> 5467
 <211> 462
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-C11

 <400> 5467

 acgcgtccgc ccangcgtcc gggcggttga tttgagataa cggtcttctc caaaattgct 60
 tgaggaagtg gttttgttgt gtctctctgg gtttgaaata tgagcggaga tagacttgaa 120
 tttgaaaacc ctatagagga tgcgggttctg aggctcagat tctcccctca atcaaacaat 180
 ctctcgttg cttcttggga ttcttatctg agattgtatg atgtggagag ctcttcgcta 240
 agtcttgaat taaactctca agctgctctt cttgattgtt gtttcgagaa tgaatcaact 300
 tcatttacct ctgggttctga tggattcctc cgaaggatg atttaaagc tggaacagtt 360
 gatacaattg gaaggcatga tgacatttca acatccattg tctactctta tgaaaaaggt 420
 gaagttatct cgactggggt tgatgagaag atnaaattct gg 462

<210> 5468

<211> 469
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-C12

 <400> 5468

 acgcgtccgc acaaaactcgc aagttactct ctcattcctc atcgtaccct ctttactcag 60
 gtatTTTTctg aagttaaaag atagaaataa tgtctgaaaa ggtgggagcg atgggtggta 120
 acaagggtgg agcattcgac gatggtgttt ttgatggtgt gaagaaagta attgttgga 180
 aagacttcaa caatgtaact tatatcaagg ttgaatacga aaaggacgga aaattcgaaa 240
 ttcgtgaaca cgggactaat cgcgggcagc taaaagagtt ttcagtggat tatccccgaat 300
 gaatatatca cagccgttgg tggaagctac gacactgttt tcggttacgg atcagcgttg 360
 atcaagtcac tactcttcaa aacctcttat gggaagaacc tctccaatcc ttggtcacac 420
 gacattacta nggaatccaa ctgggaaaga attcatgctc gagtccaaa 469

<210> 5469
 <211> 498
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-C5

 <400> 5469

 gntttggcgc ggcctaccg gtccggaaat tcccgggtcg acccacgcgt ccgcccangc 60
 gtccgtggag atctcttctg ggaatcgagc ttactgtta aagattttcc ttcaatcggc 120
 taaaaatgat acatttcgtg ttactagtca gtcgacaagg gaaagtaagg ctcaccaagt 180
 ggtattcgcc gtatacgagc aaggaaagat ctaaggtcac acgtgaactc agtggagtga 240
 ttctgaaccg aggtcccaag ctctgcaatt ttattgaatg gagaggatac aaggttgtct 300
 acaaaagata tgcaagcttg tacttctgca tgtgcattga tgaggcggat aacgagttag 360
 aggtactgga gataattcat cactacgtcg agattcttga ccgctacttt ggcagtgtgt 420
 gtgaactcca ttgattttt aacttcaca aggcgtatat atactccatg agcgttgatc 480
 ccggagaact tcaagagt 498

<210> 5472
 <211> 463
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-D1

<400> 5472

acgcgtccgg atngaggttg cttttccatc ttcgccgccg gtgaaatgca tcgccgatga 60
 aagattaaca gagatctcca tggatttcac caaattagga ttcccagaan aagatgaaga 120
 aattaaaaaa ttggagagat cgtggagtaa gctcnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn ngttttcgtt tgcttgtgta aacggagaan gatctccaat 240
 taccgctgat gaagcttttg aagatggta gatccgtcct gtgtttcctc tgtttaaccg 300
 tgatcttctc ttcgagtacg aaaacgaaca tgacaaaaac gacaacgttt cggtcaccga 360
 cgagaacaga ccgcgtcnta aaaaattatt tgttgaggat cgtaacggta acggtgaccg 420
 ngaagagacg gaagggctct gagaaagaac cgtttgggan cgt 463

<210> 5473
 <211> 494
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-D10

<400> 5473

taccggtang gaaatccggg cagtccgaga gagagaaaaa aataaaaaat aatctgtcgg 60
 tgatttataa cctcctctct aataaaccac cacatcctct gaaaccctag cctgaacaac 120
 tcgccgtctt ctcgagaaac atctttctta cttcgcttca ttacaagatc tgatgaaacc 180
 agatcggatc ttgctctaga tccagatgct ccttaactta tttactcgaa ttcacatca 240
 tcgttatcat caccatgtca ctgtttctaa aagacgattc gattcaaatac cgtgaagtat 300
 ggaacgacaa tctcgaatca gagatggctc tgattcgaga agtcgtagac gatttcccat 360
 tcgtagcgat ggacacagag ttcccaggaa tcgtgtgtag accagtggga acattcaaaa 420
 ccaacacaga gtaccactac gaaactctca aaacaaacgt caacatactc aagatgattc 480
 agcttggnct cact 494

<210> 5474
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-022-Q2-E1-D2

 <400> 5474

 acgcgtccgg aaacactatt aagatcatca cttctcagat ttcgatattc ccaataaata 60
 ataaatactc tcagttcttc tcttctccaa gaacaaaaaa aaaaaatgaa ttcagaatcg 120
 ctagaaaatc ttcaccgtcc attaatcgaa tcatcgaagt cgttcgtcga ttatcgtctc 180
 gagactgtgt taacagatcg agagttaccg tattttcgcc ggatttatct agcgatgatg 240
 attgagatga agtttctctt tcatctggcg gctccggcga tctttgttta cgtcatcaac 300
 aacggcatgt caattcttac acgtatcttc gctggacacg taggaagctt cgaactcgcc 360
 gccgcttcac ttggaaacag tgggttcaac atgttcacct atggacttct gcttgggaaat 420
 gggaagtgca gtggaaacat tatgtggtca agcacatgga gctcat 466

<210> 5475
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-D4

 <400> 5475

 acgcgtccgg gcacaaaggg gaagcctttt tcaactgggta tgtgttgaga atttgggggtt 60
 tttaggtttt tggctcagaa gagagaatct gggatcttaa aaatcgaaac tttctagatg 120
 tggttttagt tcaacttagt tgtagaagat gggatcaaat caaggttctt ccagggttaga 180
 tacgttagag attaaagctc tcattttaccg ggaaattggg aatcaaagag ctgagagtta 240
 cttcaatcag ctcggaagat tctttgcctt gaagatcacc aaatctgaat tcgacaagtt 300
 gtgcatcaag accattggta gacaaaacat ccatcttcat aaccgtctta tacgttccat 360
 catcaagaat gcttgtattg ccaaatctcc accatttata aaagaaangt gggaactttg 420
 ttaaaatttg gaaaggggaa tonaagaaga acagtcaaat tccagc 466

<210> 5476
 <211> 455
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-D5

<400> 5476

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acgcgtccga ttncctttaa gcaaacgagc ttgagaagct ttccgatttc aattcctttt 60
aattgacgat gccttcttcg ttctccaagc cggatttaga tccttcttct tcgcctccac 120
cgattttctcc tttatctcaa gacagctcgg aggctgagcg ccggcttcga gaagcggagg 180
agaggctacg cgatgccatg gcggagcttc agcgtagaca acgctctgcg gcgcgtggat 240
ctcacgcgga attgtgtgat cacgctgacg tttcttgctg cgccaatgcc attgggaatt 300
tatgtcagag ctttcttctc tcttatgggt ttagagttgg gatcgggatt cntcttcgcg 360
cttttaagct cgctagggga caatcctant ccgctcntct cgatnttaag caacttgttt 420
caaagaaaga nttgatagtt anggaagaaa catgt 455
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<210> 5477
 <211> 506
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-B3

<400> 5477

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aantggattg ctttggcctg nccgtccgga aatcaagggt cgacccacgc gtccgcagat 60
tcaagaccta ccgatgaaga gtcgtcaat cactanctcc gtctcaagat caacggacgt 120
cactccgatg tccgtgtcat cctgatatac gatgtctgca aatgggaacc ttgggatctt 180
cctggttcgt ctctttattc tctcaaaatt tgattccttt tattctcaga ttctgttttc 240
cctctcaaag attccacctt ttttttcttt actcanttgg gaacaaatct gattgtcggc 300
agctctctcg gtgattaaga cggatgatcc anagtgggtc tttttctgcn ctcgtgatcg 360
gaaatanctt aatggncatc gctctancag agcaantgac tctggntatt ggnaagctac 420
tggtaaagat cgtancatca agtctaagaa gactttaatc ggtatgaaga agactcntgg 480
```


catccatcgt tggcnaactc ctaaaa

506

<210> 5478
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-E1

<400> 5478

tgggnggtag agaacgtccn cegtantacg gccntcattc cggaaccccc acgcgtccgg 60
naaattggcg aagaacaaag tttgaacctt ttcttcatcc atctctctcc gtcgcttctt 120
cctaacgatt ccttcaactcg aatcagggtt gtgaagggtt tttctagggt ttcgaaaaga 180
tgccggcgac agcaggaaga gtgcgtatgc ccgcaaaca tggggtgcat agtagtgag 240
cgcttcagac tcatggaata tggcagagtg cgattgggta tgatccttat gcaccaacta 300
atanagaaga gcctaagacg acacaacana naaccgaaga ttccgagaac tcgtacgcga 360
gttttcaggg acttttggct cttgctaagg atacgggttc naaatnacga tnaaggctcc 420
gttggttcct tgtaagaaa nttgttggcc gttgttgggg catttnga 468

<210> 5479
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-E10

<400> 5479

acgcgtccgc acgattttta tggcagttta acgggaacac ttctctctct ctctctagat 60
cccaaaactc aaaatcggtc ctttttgcaa aaattgttca tctttctggt ttcccagaaa 120
tanggaaagc tctcttgatt tgcctttcct ggtattgagg aaatatgttt agatcatcac 180
cgagaagagg acagagatca aagggtttca aggtgaagca ttgtattcaa ttgactttgt 240
tgcttantgt tgggatatgg ttgctttanc aaagttaagc antctcatga agaaagaaag 300
ctcaatttgg aggaaangtg caaaagaatt ggtggttggg tgggggttga anaaaagntt 360
gtcnaagcct tgggnangga aaagatntta acccncggg ggttgggtta aggnntaaat 420

gaaaccctna agggnnntnaa gggaattaaa aaaggttggt tanaaa

466

<210> 5480

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-020-Q1-E1-E11

<400> 5480

acnrgtccgc ccacgcgtcc gctctgtttt ccttggtctc caagccagat ctctctccat 60

aaatctctct tcatctctct ctttccacca aacatccgcg atcctcgatt ctcanttccg 120

tgngntgttt ngtttcttca cttagcgatg gcgatgatag agcaaaggnc gaatacgaag 180

atcgtttgta ctctaggtcn agcttccaga tctgttccga tggtcgagaa nttcttangg 240

ctggtatgaa cgttgctcgt ttcaatttct ctcatggatc catgaatacc atcaagagac 300

tctcgatatc tcatcaagct atgcttaaca ctgggattcn ctgtgngtca tgctcnaaac 360

angggtaag aaatccggaa cgggggttctt gaaagntggg aaaacaa 407

<210> 5481

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-020-Q1-E1-E3

<400> 5481

acgcgtccgg aaacaagaaa acgaaaggaa aaaatacaga aatgggtggt ttgaagtttc 60

atgtacttat gtatccatgg ttcgcaacag gccatatgac cccgttcctt tttcttgcca 120

acaaattggc tgagaaaggc catacgggtca cttttttgat tcccaagaaa gctctgaaac 180

agttggaaaa tctcaatctg tttccacaca acattgtctt tcgctctgtc accgtccctc 240

atgtggatgg tctccccgtt ggcacagaga cagtctctga gattccccgtg acatcagctg 300

atctcttgat gtctgctatg gatccacacg tgatcaagtt gaagggtgtg ccgagcmttg 360

aaccggactg atctccttga cttcgccaat ggattcaaaa gtaccanana cttggcctta 420

aactgtaant act 433

<210> 5482
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-E4

<400> 5482

cncgtacggg ccgaaattcc cgggacgacc cacgcgtccg aaaaagagtt tgaaattcag 60
aattgtcatc ttttgtttcg atcggattcc ttattcgtgt atcttctccg attcgatggg 120
aattggctct catggcaatg gtaatcaaga ggtttcgcgt taatcaaaag gagtgaacg 180
atggcgtttt gtatttggtg ttttaagcaac ttcagttctt accgttttga gtgttgatca 240
tttgtttggc agagaactta aaagggttaga tctttcttct gaaatgattt cattattaat 300
tgtctgcttg tacttgaatc atgttaatta tgactgagct tttcttcttg aggatgagga 360
aatcgtaatg gctaatacat acaatttgtc nactaaagat aattgaagtt gataatgcta 420
aacacgccac aagtatangt caatancata atgaatgttt tgtcacaaga aaganaatga 480
ctt 483

<210> 5483
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-E7

<400> 5483

acttcatcta tggtttcttc ttctctgcag tctctcttct ctctgttttg ccttgctctg 60
ttctctcttc ctctcatcgt ctctccatc ggcataact atggccaggc cgctaacaac 120
cttctctccc ctaaaaacgt catccctctc ctcaagtctg tgggagctac aaaagtcaag 180
ctctatgacg ccgatccaca agccctacgt gccttcgccg gctccggctt cgagctcacc 240
gtggccctcg gtaacgagta cctggctcag atgagcnacc ctattaaagc ccaaggctgg 300
gtgaaggaga acgtccaagc ttacctcca aacaccaaga tcgtggccat cgtagtggga 360
aacgaagtct canctcanac cagtcagccc tcacgggaag ccctcttccc ggctatgcaa 420

aagcatccaa nggtgctctn gtggaattgt gg

452

<210> 5484

<211> 449

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-020-Q1-E1-E9

<400> 5484

acgcgtccgc ccacgcgtcc gcgagattct acaaatgggt caccgagggg aatgacagag 60

gagaatggct taagaacttg aagtatggag tgtttggtt aggaaacaga caatatgagc 120

attttaatan ggttgccaaa gttgtagatg acattcttgt cgaacaaggt gcacagcgctc 180

ttgtacaagt tggctcttga gatgatgacc agtgtattga agatgacttt accgcttggc 240

gagaagcatt gtggcccgag cttgatacaa tactgagga agaaggggat acagctgttg 300

ccacaccata cactgcagct gtgttagaat acagagtttc tattcacgac tctgaagaat 360

ccaaattcaa tgatataaac atggcaaatg ggaatgggta cactgtgttg atcccaacat 420

ccttacaanc aaatgtcctg tttaaaagg 449

<210> 5485

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-020-Q1-E1-F10

<400> 5485

tncccggggc caccctaaacg tccgcacacg cgtccgaaaa taagcacaca ccattatcca 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn gggtacgggt caatcgaact cggaagtcac ggctatggcc acaagggtgt 180

tggctcaatc gactccaccg tcttttagctt gttacnagag gantgttcct tcacgtggat 240

ctggaagatc gagaagatcg gtganaatga tgtgtagtca gttacaagtg tctgggtttaa 300

gaatgcaagg gtttatggga ttacgtggta ncaatgcttt agacactctt ggnaaaagnc 360

gtcaagatct tcattcgang gtgcgacagg cantgaatgt gccangggg aaagctagcc 420

ggtttacggt gaaagcantg tttgngagat tacgggggaa aagctatc 468

<210> 5486
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-F2

<400> 5486

gtggggaang tccccgcaa ttacggncca ngttcccggg nccnccacg cgtccgaaaa 60
ggaaaaaaga caaatcaaag agagacgatt cgatcgcatc aatggcagaa gaaaagagct 120
tcaagtatgt gatcgtcgga ggtggtgtcg ccgccggata cgcggcgaga gagttcttca 180
accaaggtgt caagcctggt gaacttgcta tcatttcag ggaacaagtt cctccatatg 240
agcgtcctgc acttagcaag ggatatatcc acctcgaaaa taaagctaca cttccgaatt 300
tctatgttgc tgctggaatt gggggagaga gacagttccc tcaatggtac aaagagaaag 360
gtattgaagc tgattttggg cacaganatt gtchnaagcag atntttgctg cnaagacact 420
ntcngttggg aactgggacc aagtcctcaa gttnncaaaa ctttggctag cnnnaactg 480
gttccttcng tcntaangg ttgttcagaa tttttg 516

<210> 5487
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-F4

<400> 5487

acgttccagc cttagcgggc cgaaatcccg ggnchnacca cgcgtccgca atttttgagt 60
tagccaagtg ctcaaggag atacataata cctgaagatg tccaaggcaa gtgatgccgt 120
cagagaacca ttggtggaca agaatatggc tggatcaaaa ccagaccagc cgtggatggt 180
ttatctcagc acattcgttg cgggtctgtg ttcttttgcg ttcggttctt gtgcgggata 240
ctcttcacct gctcaggctg caattaggaa tgaccttca ttgactatag ctgagttttc 300
actctttggt tctttactaa cttttggcgc aatgatcggg gctataacaa gcgggcctat 360

aaaacaaaag angcattagc aaatgggtga agaaagcgaa agactacgtt gntgaaaaaa 360
 acagtgaac cgcagatata ttgggtaaaa gaactganaa agtgcnngt atgttgagg 420
 agaaaggaaa agaagcccaa acaaggngga a 451

<210> 5490
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 5490

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 gagaagagac acgatttcat tcacaatggt caaaaggat ttgagtggga tcaaaccctg 180
 gaagaagtga acatgtacat aactttgccg ccaaagtgc atccaaagtc attccactgc 240
 aaaatccagt cgaaacatat cgaagtggc atcaaaggca accctcccta tctcaatcac 300
 gatcttagtg ctctgtgaa gactgattgc tcgttctgga ctctanagga tgatataatg 360
 cacattacc tgcagaagan gganaaaggg caaacatggg catcaacgat tctgggacaa 420
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 aaagaan 487

<210> 5491
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 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-020-Q1-E1-D6
 <400> 5491

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 aagtgtcctg agattgaagt agtcgttggt gatattctctg aaccaaggat caatgcttgg 240
 aacagtgata ggcttcctat ttacgagccg ggattggaag atgtggtgaa acaatgcaga 300

ggcgatataa atgaagagtc gatactcata accgcatgct tgacanaatg ggcaatgata 360
 tggattcatc aagggggaat tctcctccag gaaaccatgg aaccgccttt aaaccggtgt 420
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 tggggttaat tcc 493

<210> 5494
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
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 <223> Clone ID: LIB23-020-Q1-E1-C10
 <400> 5494

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 gtgggacttt tgctgctatt gacaggatca attccatttt aaacgcggtg gacatagatg 180
 aggcctttgc ctacgggtta gaaagagata tacatacaaa gaaagtccaa gatgaaaacc 240
 ttaaattgtt cttgtctgct ggcccaaagt tgaatatccg tcacctcgat aagtactaca 300
 tgtcaaactc gaaatcaact aacaatctac gtaccctaaa catgggctgg gagatgtctg 360
 tcntgatgat gtgcattttg cttaacctct aagaaccga cgtgaaagt cntgatgggc 420
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<210> 5495
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-C3
 <400> 5495

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 gagagacttt tcaactctgg gagagagctc aagttctaag ggcgaacttg gtcttatcag 180
 aatgtggtat acgacctctc ccagaatct acacaacacc cagatccaat ttccnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn cgaaatgggt tcacgaagga antgggcggt gaatgtgaag 360
 cacaacaatt acgacacaat attgagggag tcnccaatgg ngggagatta ttaacagnga 420
 tcnattcaag tgcgcctcct cegtccaant tagc 454

<210> 5496
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-C4
 <400> 5496

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 aagcaagatt cttggatctg cctcttaaga tcgatcgggtg cttttgtatc ctcaggtatg 180
 tgttgatact tgatcgtatc tatctacaga gattaatcgt atcgtagtct gatttggtag 240
 atttggaatt gggaatcgag aagtttaaaa atggaggagg atagagagaa tgcaaaagag 300
 agtagtggtt gtaactgtan gaacaacgaa gtttcgatgc tcttggtgaaa gcagtgggta 360
 gtcaaaatgt taaagacgaa ctgcagaaga gaggattact catcctccta atcaaatggg 420
 tccaagaatc cttttcccaa ctaaattgtga tgg 453

<210> 5497
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-C6
 <400> 5497

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 agttcgaatc ttttcttgat ggtcaagggc ttctgggttt tgtcacaggc tcgattcctg 180
 caccaagcca aaccagcggt gtttcagaca ttgatgggtc aacatcgggt tcaccaatc 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttt tccgatctag gtaatccgga 300
 ttccgatccg ttaccgacgc cgganattga tganaaagac gtttgtggtt atcaaaggga 360
 gcgttacttc actgatgtga ttgagaataa tcaatacgtt ttgggttaat tttaancccc 420
 ctngtgtggt caattgcaat ccccttgntc ctgaata 457

<210> 5500
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-D10
 <400> 5500

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 tgtgaaccac catgctaate cccacagctt cacttctccg accaaacca ttttctttct 180
 ttctcaaaag cctcacaatt tccatgtctg ctcgtctcga tgctctatgg ttcttgagga 240
 agatgaaaag aagtcaccga gtcctaaaag aaagacaagt gggcattttt tgacctgggc 300
 ccgaatgaac ttaaacgggt cctaaccaag tttctccgaa naccgggaaa ctcgggaact 360
 tcctccgaat tctacgaaaa agctaangng aactccgagt tnaagaacga acaagcatcc 420
 gataagttac ttngtgagtt tcaagaattg ggactt 456

<210> 5501
 <211> 475
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-D2
 <400> 5501

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 ctaccaatcg catctctttc tctgaccttg ttcccatcct cgactcaatt tctcaaattg 180
 tttgctcatc atccaaacaa ggttaagatc cctacgcagg cttcttctct cactcatctc 240

tctcttttctt ctgtctctcc ttttccttct tccagaatct ctttcaaata caccatcgct 300
gctaaccctc ttcaatcccc tctctccatc gtccctcgtc gtcccgttga tccttctctc 360
gccgccgctc tccgccgtgc tgctgtcgtc tggtttcgca atgacctccg tgtccacgac 420
aacgagtgtc tcaactccgg caacgaagaa tgcgtctccg ttttgcccgt ttant 475

<210> 5502
<211> 459
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-D3
<400> 5502

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cctctggaat gattccgatg gatttgctgc aaccatttct gatactttaa accctagccc 120
tagttcccct cttcgcaaac tagaagaaca gatccagctt ccgttggata agtatggcgt 180
tgaaggtgtg gaaaccggcg ggagtatcgt tcatttcgta gatgaaaatg aagtttatca 240
ggtctcgatt tttcttcttc gaagttatga gcctccagta ctagtgtgtg ctatgaatga 300
actgctggac ctaattacaa ggggatcgtc aactctaccc acaatcatag ctcccttctc 360
tgtgggcggc atctaantc aagttcaata acagattcct gggaagcaaa ttacaagaaa 420
gccaaagtcct caatacgttc aagttgcaca gaaacanag 459

<210> 5503
<211> 471
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-D4
<400> 5503

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ttaaaaaact ccagagctga ttcgattctc gagaagaaac taagccgaca ataaagttca 120
gatctgaaaa aaagcgagct ccagattaca aaaagaaaca gctcgttttt ttcactttca 180
aaaaaatgga agctttgagg atttatctat ggagtctctg tctctctctg tgtttgatta 240

tctatggagc aaactcagat ccattagaag acaaacgcgc attgcttgag tttcttacca 300
 ttatgcaacc aactcgttca ctcaactggg aacgagactc tcaagtctgc aacatctggg 360
 accggagtta cttgtaatca agacggattt cgaatcataa ccgtagatt aacaagcgtt 420
 ggactcaatg ggcaaantcc tccaaacact atnagcaaga ctcccaagct c 471

<210> 5504
 <211> 494
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-D5
 <400> 5504

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 tgttgccaaa cttcatataa acttagtgag cggaactgga tttggggaga atggcttctt 180
 ctttagctca atctagaatc tcgaatctcc agaatcatct ttcacctctt gaagcaaaca 240
 acaagctcag gagtctggtc aagatttctc cccaagtatc tgaagccttg tctaattggac 300
 gtgctgttgt cgctcttgag tcaaccatta tctcccatgg gatgccttac cctcaaaatc 360
 tgcaaacagc aaaagangtg gagtcaattg tganagaaaa tggaagcaat ccctgcaaca 420
 anttgctatc cttaaattgga atnncntgca aaagtctgaa ccaagaaagn actaagaacg 480
 tcntgcatct ctcg 494

<210> 5505
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-B7
 <400> 5505

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 gctggagctt ctgtgcttgg ctatagagca aggagcatcc cgacagcgat agctgcaggt 180

gcaacactag ctgttacctc tgctttgatt gattctggag gtcagaccac aagagtagac 240
aatggcagag aatactatcc ttacaccgtc gagaaaagag ctgaagctga ttcttgattt 300
ctcttttggc cactgagatt aataagatgt gcattcgctg atccggggat cttgagataa 360
tctcttttgt ttattttatc tggatatgtg atatcatgat actctttgct ctgttcttct 420
tgtttcttga naggcacttc tcacatcttt gtcgaatgtt cctgcaataa aaatca 476

<210> 5506
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-019-Q1-E1-G7

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ggaagaggac gctcgtgtcc gttttgttcc ttttctcgct tctgtttctt cttccagatc 120
aaggaagaaa gttacacgcg aatgcagaag agagttccga tgatgttaca gatccaccaa 180
aagttgagga gaaaattggc ggtcacggtg gtttatcgac ggattccgat gtagttcata 240
gagagtctga gtcgatgtca aagaagacgc ttcgcagtaa cgcggagaag tttgagttcc 300
aagctgaggt ttctcggctt atggacatta ttatcaactc tctatacagt aacaaggaca 360
ttttcttaag agagttgatc tccaatgctt ctgatgcctt ggacaaaatt angttccttg 420
cactcactga caaagacttt tgggttaaag tgacac 456

<210> 5507
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-019-Q1-E1-G9

<400> 5507
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acctcaaatt cttcataaac aaatccactt ctgcatgggtt gggagaatct gttagagaat 180

ttttgttggt gttgggttca gatttggaat atttcctttt tttcgagttt cttctgaatt 240
 attcatcgtg gagattctcg gatcgggaag ggctgcgaga ggtgggtttt acggcgggga 300
 tagattcatc ttctgtcttc tctgaaggg ggtagccgag gcccgggcct cggcgggttt 360
 taaaacccca accttaaaaa atccgggaaa at 392

<210> 5508
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-H1
 <400> 5508

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 aggaagaang ttacacgcga atgcagaaga gagttccgat gatgttacag atccaccaaa 180
 agttgaggag aaaattggtg gtcacgggtg tttatcgacg gattccgatg tagttcatag 240
 agagtctgag tcgatgtcaa agaagacgct tcgcagtaac gcggagaagt ttgagttcca 300
 agctgagggt tctcggttta tggacattat tatcaactct ctatacagta acaaggacat 360
 tttcttaaga gagttgatct ccantgcttc tgatgccttg gacaaaatta ngttccttgc 420
 actcactgac anagacgttt tgggtgaagg tgacactg 458

<210> 5509
 <211> 521
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-H2
 <400> 5509

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 ttttaggggt ctctcatcga tctcggtttg tgatcttctt cttcatcaat ggcgtctagt 180
 gataancaaa caagcccaaa gcctctctct tcaccgtctc ctctccgtaa ttccaagttt 240

tgtcagtcaa atatgaggat tttgatctca ggaggagctg gattcattgg ttctcacctt 300
 gttgataagc tgatggaaaa cgaaaagaat gaggtgattg ttgctgataa ctatttcact 360
 ggttcaaagg acaaccttaa gaagtggatt ggtcatccaa gatttgagct tatccgtcac 420
 gatgtcacgg gagccacttt tgattgaagt tgatnaagat ttaccatcct tgcattgcct 480
 gcttctctcc taacctctac aagtacaanc cctgtgaaaa a 521

<210> 5510
 <211> 455
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-H5
 <400> 5510

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 agtttgtcat tgaatatttg gtttgcaatg gaaagagatt ttctgggttt gagcgacaag 180
 cagtatctaa gtaataacgt taagcatgag gttaacgatg atgctgtcga agaacgaggg 240
 ttaagtacga aggcagctag agaatggggg aagtcaaagg tttttgctac ttcaagtttc 300
 atgccttctt cagatttcca ggaggctaan gcgtttccgg gtgcatacca gtggggatca 360
 gtttctgcgg ccaatgtttt ccgcagatgc caatttgggt ggtgcgtttc aaaacgcaac 420
 ccgcctttac tnagcgggtca atttccttta caacc 455

<210> 5511
 <211> 455
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-H6
 <400> 5511

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 cttcaaccgt tcgccagttc acttccgcgc gctatccttc caacagtttt caattgacgc 180

cgccgacgaa ttggggaatc cggatagttc cggagaggaa ggcgtttgtg attgagcgat 240
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 gtattgctta tgttcattct ctcaaggaag aagctatccc gattccgaat cagactgcga 360
 ttactaaaga caacgttagt atccacatcg atgggtgttct ctacgttaag attgtggatc 420
 ctaagttagc ttcttatggc gttgagagtc ctatc 455

<210> 5512
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-A1
 <400> 5512

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 agaagcaagt ggttctgttt tcttcattga tggatccaac aatcaatata ttcgtccacg 180
 atcatccagt gaggcacttc ccatgtcgcc tgttgaaata tctgcagcag tgtctgcctt 240
 gttgggtttt gcaccttcag caactttgac aagctgatgg ctcatccaag ttgaacaaag 300
 atctaaaacc taatccattt ganaagcctc gccgctgctt tgtgctaaaa atccccggan 360
 ctggatgata atgccttttg gaaactcccc taatcaatcc ttcttggggc aatggcataa 420
 aggagcaant attaagttct gaatcgtaaa aaagctgata c 461

<210> 5513
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-A10
 <400> 5513

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 cttancataa tctcattatg ttccgcccac aaagaagcgt tttcttcaac tgatcttggt 180

caaatggagt gcttgagagt cccaccgtta gagtttgctg aagcggccaa aaccgtcgtc 240
gacgctataa caaaagcngg tagcaatagt tttcaaagtt ccacnaagaa aagcngggaa 300
ttcncaagtc tcaatnccaa tggttgaatt ggtgtttgat tctccttgat tcctggcggc 360
cgaaagaacc ttccttggga ttaatcctct gcctctcaat cccccaaacg ggtaagaca 420
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<210> 5514
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-A11

<400> 5514

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gaggacgttg acgatnagga tctcagcttc ctgaagatn tcanagaaga cgannttccc 180
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntttttccga tctaggtant 300
ccggattccg atccgttncc gacgccggag attgatgaga aagacgttgt ggttatcaag 360
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ncnttgtgtg ggtcagttgn agt 443

<210> 5515
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-B1

<400> 5515

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tactcaaaga tcatcccat cggagaatct tctcctccat aggaaaatgt cgtctaattc 180

cctgaggcat gtcgagtcca tgtcccagct accctcaggt gccggaaaga tctctcaatt 240
 aaacgccgtc gtgttaggag aatcccttgc atcggaggag aatgatctcg tctttcccag 300
 caaggaattc tccggccagg ctcttgtttc ctcccctcaa cagtacatgg aaaatgcata 360
 anaagtccaa tggatgaacc tgctgccttt tgggtctgaa aatgcctctg aattttactg 420
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<210> 5516
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-B2
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 ttcgagagga ggcctaagca attcggattt ggtggagctt tacctcctaa gaaggatctc 180
 tctcgctaca tcaaatggcc caaatccatc cgtcttcaaa ggcaaaagag gatcctgaag 240
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 gctaccagcc tcttcaaggt ccttctgaag tacaggccan aagacaaagc tgccaagaan 360
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 ccantgtagt caaatacggg ctcaancatg 450

<210> 5517
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-B3
 <400> 5517

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 ctcttgctaa actcaccgcc ggggttcttc cgagacggna aggcgacaga aatgttatatc 180

gtattggcgg tttctctctg ccttgctctc ctagatnctc acctgttcca gatttttctt 240
ctcatcttgt cgattttctga actctgcgct acgccttaat ctcaattttg ggttttcacc 300
ggagattatg actgccaaaga cttttttccc ggcgctctgat ctctccgtct gtagaatanc 360
ttttttggat ttccctaaaa ttttttgggt tggtnccegn aattttgaan nggctcanaa 420
gttgtaaaaa gaatgtttcc gaant 445

<210> 5518
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-B6

<400> 5518

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
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ctctttgagt ttgagtcagc tttgtgttgt gtctaaattc taaacaagtt tcagatcttt 300
accttccttt gacttgtctc ctgtcttaaa actagggttt aattttcttt ctctgttcaa 360
gtctcagatt tgaccagctt ggtccagaat ttcgcttctc ctcgatcata aatcaaagtt 420
gattcaaaga ggtttgattg agtcagagat ctctctttta gaaacatggt gaagcaaagt 480
aag 483

<210> 5519
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-019-Q1-E1-G6

<400> 5519

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tcgccnaaga tgatgccgtc gccaccgtnc gcgaggcttt ccgtctcggt atcaacttct 180
 tcgacacctc cccgtattat ggaggaacac tgtctgagaa aatgcttggt aanggacnaa 240
 angcttttgca agtccctaga agtgactaca ttgtggctac taaatgtggt agatataaag 300
 aaggttttga tttcagtgtc gagagagtaa gaaagagtat tgacgagagc ttggagangc 360
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 aagattgtna gttaaacatt cctgctcttc agaaactg 458

<210> 5520
 <211> 495
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-B4
 <400> 5520

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 tatcgacaat cctacacaaa tccataatca tggccgccac tgcttcctcc gaagcttctg 180
 aaggaccagt gatgggtctc atcaacaagc gtctccgtgc tctccgtaag aaatacaacc 240
 gaatcactca aatggaagaa tcgatttctc aaggcaaaac cctaaacaag gagcaaagaa 300
 agaagtctc cggtctctaaa actgccgtcg tcctcctaaa tcgacgaagc ttgaaaagat 360
 tcgtggcccc tctctcngcc gncnttannn naaggaaatn aagcctcgct aatcaagctt 420
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 gaatatcccc gcaag 495

<210> 5521
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-B9
 <400> 5521

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tctttaatgg aggtgataca cgcattggtct gctccaagat cactcagcac cactctcatg 120
tactcctttg cccagagaga tgacattgaa gtgcttgatg agccattata cgctgcgttc 180
ctcaagtcta cgggtgttga taggccttac aaagatgagc ttctctctaa gatggagtgt 240
gatggagaaa aggtggtgaa ggatatcatt tatgggtccag gaaagaagaa atataggttt 300
tgtaagcata tatcgaaaca gcgacttctt ggtttgccaa gtgaactaat gagtgaaggg 360
aagcacttta tattgatacg caatcccttc aacatattgc cttcttttga gaagatacac 420
ccttcacgtg ttcacgaatt gggactggga nagt 454

<210> 5522
<211> 474
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-C2
<400> 5522

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntgt cttgctccgt cgccgtatgt 180
aattctccgg tgttttcacc gtcgtcttct ctattctgca acaaactctc gattctctcg 240
tcaccgcaag aatctctttc tctaacgctt tctcatcgca aacctcagac ctcttctcct 300
tctctccat ccaccaacgt ttcttctcct aaatctccaa ttcgtctccg ttccaaaaaa 360
ctccgtccgg gattggcccc nggnccaata acctttggnt ttgaatccgg ttctgnatcc 420
tctcctccgg ggaggtgttt taaagaggaa acgacctaca aggcttgata tacc 474

<210> 5523
<211> 520
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-D1
<400> 5523

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acgcgtccgc ccacgcgtcc gctttcgtct tcttcccggc tttactctct ttctctctcc 60
accgtcggct cagatctaga cggaaatgtg ccggtgaaat cgaatcatga aaagatctca 120
catttcgtct cctcgttctt attcacgacc agcgatttca atcttcggtg tcttcctctt 180
gtttcttctg gttttaacac taagctctcg aaaacatca gattcatcct ccggttttagc 240
tccaaatcga aacttancca caaaatcgac gattccgagg tttgcgtaat tgggaaacgg 300
gaaccaaagg agatgggaaa cgaatgaanc gggctgcnta aancaatata tcaatcgag 360
aaaattncna ncngnctcaa tttggatttc naaacctccn aanaaaaaa aaantganct 420
ngcgaaanta tgtgagattg ggagaaaaaa gaagtttgan gaatgttaan ggtaatgggg 480
ttt 483

<210> 5526
<211> 476
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-D3
<400> 5526

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tcaatggcgt ctggatcttc gggtcgggtc aactcaggat ccaaagggtt cgattttggc 180
tccgatgata tcctttgctc ttatgatgac tacaccaacc aagactctc taatggctct 240
cactccgatc ctgcgatcgc tgcttccaac tccaacaagg aattccataa aacaaggatg 300
gcaaggctctt cggttttccc tacaangctc ttacangtcc ancagaggat tcnttgancc 360
angacattag nngacactgg tcnaaaggnc cannaaagaa tgtttgccgg anaaanatga 420
ngcgcttttc ctgaagggtt caagttcang cntgtctcan cttgaactct aatgct 476

<210> 5527
<211> 503
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-E1

<400> 5527

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gctaagatta cttctaagat gatcaactac aaattaaagt cgcgaatata taaggtaatt 180

cagttatttg ctagctatat gaatttttct gaaattttat atatacgggt agatttagtg 240

tgtgcatgga tctaattcgt ctagtccatg atctagtgtg taaaaatcaa ccaaaagaat 300

gaaaccacca ctactatagt attttaattct attgtgtcct gatattagta agaataatag 360

ctgatatttt gattgattta tgagactaaa acaatcttgg ngcgtcattt aggtgcaaat 420

tnaccnaant taaaatatgc caattctctc ctcaagaacc aattcnatat ttttagtggg 480

aatgataaa aattgcatat ata 503

<210> 5528

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-018-Q1-E1-E10

<400> 5528

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gaaggggccc acgtcgtgcc agctcaagag atcgccgagt gcgatcgaag tcagtccggt 120

caggtcgtcg agcctgaagt tcaaaatatt accgacgacc gtcctcgtcg cgtttatgcc 180

gcccctccag caggcgaaga ggtcaacacg ggcctaacta tccttgatca agacaaggac 240

gaaaccgttg ctgagcccgg gatttcacag aggtcccgtg aggagaaagg gaaaggaggg 300

gctaaccaat ccaagaagag gtcggcttct gaagccggtt tagatgaggc cgctgtcca 360

aagacgtttc gctgtcgcg aggcgagact cttaattctg accagtttac gttcaagtat 420

tctggtgaga aat 433

<210> 5529

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-018-Q1-E1-E3

<223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-F2

<400> 5531

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tcattggtgg gatttcgtgg gatacagacg aagaaaggtt aagagactac tttagcaact 120
atggtgatgt tgttgaagct gtgatcatga gagatcgtgc cacaggtcgt gcacgtggct 180
tcggcttcat tgtctttgca gaccctgtg tctcagagag agtgatcatg gataaacaca 240
tcatcgatgg ccgcacgggt gaggcgaaga angctgtgcc tcgagatgat cagcaggtgc 300
taaagcgaca cgctagtcct atccacctta tgtcacctgt ccatggtggt ggtggaagga 360
caaagaagat cttcnttggg angtttaacg tctancanta ccgaggangg attcaagaac 420
tactttgatt aattttggac aatgccgaag tttgttgtaa tgtatgatca taacacgcag 480
aaggcaagag gtttggttc atcacatttg attcana 517

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<210> 5532
 <211> 525
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-F3

<400> 5532

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agtctccac tgattcagca gctctttgaa ctactcttcg acaatggccg aacgtggtgg 120
agaacgtggt gttgagcgtg gtggagaacg tggtgatttc ggacgaggat tcggaggccg 180
tggaggtcgt ggagatcgtg gagggcgtgg acgtggaggc cgtggtggtc gtcgtggagg 240
gcgtgccagt gaanaataga aatgggttcc aagtgaccaa gcttggtcgt ctcgtggcgg 300
ctggtcatat caagcagata gagcagatct atcttcattc actcccggtt aaggagtacc 360
agatcattga taagctcatc ngtcancat tganggatga ggtaatnaaa ancaatnccg 420
gttaaaaaac naancanggc ctggtcnaaa ggactanaat caanggcttt gttgtcgttg 480
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<210> 5533

<211> 455
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-B11

 <400> 5533

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 aagctagaga cagacgtgga gatcaaggct tcggctgata agtttcacca catgttcgct 180
 gggaaaccac accatgtctc caagcaagt ccaggcaaca ttcanggatg tgatctgcac 240
 gaangcgact ggggcacagt cggctctatc gtcttctgga attacgtaca tgatggggaa 300
 gcaaaggtgg cgannagaa gatngangcg gtggagccag ataagaactt gatnacgttt 360
 aaggttatan aaggtgatct gatgaaaaga atnchaagaa cntcntgctc accatncaag 420
 tgaccacctaa ncctggaagg cctggaaant attgt 455

<210> 5534
 <211> 440
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-G8

 <400> 5534

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 ggtggttgga aggtaagata ggatatggcg caggagcagg aaggagcggg cgttgagaaa 180
 ggtgagccga atgattcctc cgccgtgcc gtggccgcaa ccgcaaccgc aaccgccgat 240
 agcgtgaaag aagaagcaaa atggattctt ttcgcgtttg tggaatggga tattnagggt 300
 tagaagggtga cnattcngag aangagactt catnacatcc tcaanggaaa gaaaccaact 360
 ggtttaanca aggataaanc cgttnatnga attcnaggag ggaaactcna canaaatccc 420
 aaccgttcct ccgtantaat 440

<210> 5535

<211> 443
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-H10

 <400> 5535

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 tcgttctctt tcaaaaccca gaaacttgag tctctctggt tattctatgg gttcttctag 180
 ttcttctccg aaaccagaca acgtccaagg ttctttttta aaatttaacc tttttgaatt 240
 gattctgttt ctctctgatt atccgatgat tcccataaat cccatttcat gttgtgtact 300
 gtaatttgcg taaaaatggg ttctttcttt gtgggttttag gttaatgagt tttgtctttt 360
 tccaaatggt atgtttgatg ttttgaaga gagatttaag tcagcaagtt tactcaattg 420
 gntctcaaaa gttagtgaag gag 443

<210> 5536
 <211> 436
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-H11

 <400> 5536

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 aaccaggatc tctggtttcc cttatcttgc ttcccggcga tcccgcgatt tcatcaacgg 120
 gagggatgat ttcgctgacg atacgaggag ctggaaccgg aagatcaaac cggagtatgg 180
 gttcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nntggatctg ttacttagat ttgtagaaaa tgttttcaga aagatttcta agagagcaag 300
 gaaagctgtc cgatcaattt tgctgtttc gatctctacg aagctcgtgg ggttttcagt 360
 gaatggagta cttattcttg cttttttgtg gattttgaag gctttcctcg aagtagcttt 420
 gcacacttgg gaacta 436

<210> 5537

<211> 429
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-H12

 <400> 5537

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ctattgggta cttttgtcgt gaagatgatg agcttttcct caattctagc tctcaggcaa  180
tgatgagtca agataagagt aaacagcaga gtttatctgg gagtaaggaa gatgatactg  240
gagagaatgg gttgcgtcat agtctaagtc agccaagtgg ttcgaattcg tttcttagtg  300
gtgttaagca acggttactt tcttttatct tcagggagat ttggaatgaa naatcagata  360
acgtaatgag agttcaaagt cctaagaaga aagttttaat tccaatttca aggattatgt  420
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<210> 5538
 <211> 502
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-H2

 <400> 5538

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acacacgtcc ggtaccgtcc cggagatcag ctcggacatt tcctcgcttg gatctctctc  180
gtcccagtct tcattagcct cgggtggattc gtctctcatt tccttttccg gcgtagagctt  240
caagggatct tcttcggtat aggtctcgtg atctcacaat tcatcaacga gtttatcaaa  300
acatctgtag agcaagcgcg tcccgaagac atgtacgttg ctccaagctt gcgatcacat  360
ggattggcaa tcaagncaat ccgcaattca ggtcctcctt cgcaagttat tccantttga  420
nggaagttaa aggaattgga tccgggttgg gtttagnagc aggtggntta atgaatcctc  480
ctcaatgggc cttaacctgg tt                                     502
  
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<210> 5539
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-H4

<400> 5539

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 cagccttaca gtgaacaacc acaaacgatg tgtggatgga aaaggacttg tgctaccag 180
 ccaaattaga tatgtgaaat actttgaaag aattttgacc tacttcaacg gggaaaaaca 240
 aacaaggccg taagggtgtaa tgcctaaggg aatcccggct ccaataaggt gtcccctaata 300
 nggttaangg caaccaatca ataattcaag atnaccatgg gggttcccct taacancaaa 360
 aagnatcctc ngnacaaggn tnnncngta cgccantgnt aataccttaa tggtaacnag 420
 tatttggtga anccttgga aatttcaaga attttcanc c tgaaga 466

<210> 5540
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-H5

<400> 5540

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 cctgtttctc tctcgtttcc atcgacggag cttccaaaac gcaccgtttt agccgtgtca 180
 aagccgcttc atctctcttc ttctctgaga gctaagtctc cggtagttag atgtgaagct 240
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 aacgttgtgt tcaatatcta caacaaagaa agtccttgaa cgcctatccc taaccatggg 420
 cttaacctcg aacgccttcc tcttgccgg ctgggttc 458

<210> 5541
 <211> 491
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-A1
 <400> 5541
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 gaaattctcg atgaaccgcg ctctgangtt ccgagctctt catccatcag ttgttagaac 360
 ccgganaaan atggggggcca aaancaaaan gattagggtt ttaannctaa attnaaacn 420
 ggggtggcct ccctaaatgg aggnctcaag gcaagcaaga taccttgaat gctgcngaag 480
 aaaacaccaa t 491

<210> 5542
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-A3
 <400> 5542
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 ctgaatggcg acaccattta tagcgggggt tgcagtagct gcaacagcac ttgctggtag 180
 atatggaatc caagcatggc aagcattcaa ggcaaggcca ccaaggcca aaattaagaa 240
 attttatgag ggcggtttcc agcctacgat gacgaaaagg gaagctgctc tcattcttgg 300
 cgtcaggggag agtgtagcgg cggaagggt gaaggaagca cacaggaagg taatggtagc 360
 aaaccatcca gatgcagggtg gtaccattt ccnaccnccn aaatttatta ancaaanac 420

gtnatgctaa gcaaaactaa aaacagcgga ttcgcttttt gatgcaaatt tcaatcaa 478

<210> 5543
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-A4

<400> 5543

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gatacgcagc taaggagttt gccaatcaag gggttcaacc aggagaattg gctgttatct 180
cgaaagaggc ggtggctcca tatgaacgcc ctgcacttag caaggggtat ttgtttcctg 240
aaggggctgc tagacttcca ggtttccatt gctgtgttgg tantgggtga gaaaaactgc 300
ttcctgaatc ctacaagcag aaaggaattg agttgatacc aagcacanaa atagtgaaaa 360
ntgatntctc tgccaaaatc ctgtcaatgc aactggggaa ntctcaantn nnaaagcnca 420
aaaatncaac gggctctantg gtcccaaant gactgatttg gntaaaaagt gcagactctn 480
agaatatcct ctatctgaga gagatgatga t 511

<210> 5544
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-A6

<400> 5544

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gtttgaaggt gctgttattg cactgttcca tatgctgata accaagtcca acaaggttgc 180
ggctctccgc caagctttct accggcaaaa ccttccaaat gttaccaact tgcttgccac 240
agtcttgatc ttcttgattg tgatctactt ccaaggtttc cgtgtggttt tgctgtgag 300
atcaaagaat gcccggtggac aacanggttc ttanccaatc aagctgttct acacctctaa 360

gtacatgatg gggaggcaaa ggtggcgaan gagaggatcg aggcggtgga gccagataag 360
aacttgatca cgtttaaggg ttatagaaag gtgatcttga tgaaagagtt cnagaannct 420
ccttggncaa caatcaangg ttgacccctn aanccttgga aggcccttgg aaagttantt 480
gttgc 485

<210> 5547
<211> 450
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-G5
<400> 5547

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ctgaatggtc ttggaatddd tagtgctggc gttcttggtg cactttatgc actggctcgg 180
caagatacaa aagctgctga ggaaaccatc gaatctctaa agaaccagtt gaaagacaga 240
gaaagagcat tggttttgaa ggagaaagat ttcgaggcaa aactgcagca tgagcaggaa 300
gagcggaaaa aggaagtaga aaaggcaaaa gangaacagt tgtcattgat caaccagttg 360
aattctgcaa aggacttggt gacagaatta ggccgggagc taagtaccga gaagaaatta 420
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<210> 5548
<211> 454
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-E1
<400> 5548

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tcctgaaaga gctgttgaat acctgtactc gggatatcct gctcaagctg aaatcccacc 180
agttgctcaa gcccagcta ctggggaaca ggcagccaat cctctagcac agccccaaca 240

agcagcagct ccagcagctg caactggtgg tccaaacgca aatccattaa acctgttccc 300
 ccanggcattg cccgctgcag atgctgggtg ctggagctgg taatcttgat ttcctgcgta 360
 acagtcaaca attccaagcc ttgcgancta tggtaacaagc aaanccacaa aattctacag 420
 cctatgcttc angagctcgg taaacaaaac ccca 454

<210> 5549
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-E10
 <400> 5549

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 tctctcattt cttctacgga gatttgcac gaagaaactg actcgcttgt ggaatcaaca 120
 acaagacgat gtggcgctgc gtctctcgtg gctttcgagc tcttgcttca aagacctctt 180
 cactctttga tggcgctctt ggatctcgtt tttccagatt cttctccact ggttctaccg 240
 atacgagatc ctcttatacg atagtggatc acacttatga tgcggttgtg gtgggagctg 300
 gtggtgctgg tcttagggcg gcgattgggt tatcgagca tggctttaac accgcttgca 360
 ttactaagct tttccccaca aggtcacata ctgttgctgc tcaaggtggg aataatgctg 420
 cactgggaaa tatgtccgaa aatgactggg 450

<210> 5550
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-E3
 <400> 5550

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 gagagtgtca acgacgatga agaatatgac gacggaggtg taggaccacc ttcttcgttg 180
 aagatgcttc ctccgacgag caataatatc tcagctgcat cgttttcatc gtctctatca 240

aatcatcaca acggaggtag cggtaatctc catcaccacc atcacangcc acaacaataa 300
ccatcagagg aagaataatt ttccgccgac gaaagttttc agatcgtctc cttctccggc 360
gccggtatca cctcttgtct cgacgtggaa agccgccgac ganatgatcg tgtttcgggt 420
cctaaaaaag ctcggtcaac gtgtacgaag aga 453

<210> 5551
<211> 467
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-E5
<400> 5551

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actttgagtt gattctcgtt ggattttctca cgatgggaga cagcgggaag cttgaggcaa 180
cgatagatcg gcttctgaat gaagagaagc agatgagact cgccgaaaac gtagccggta 240
caaggaaaagc cgccactgag attcttcagc tttgtttcga tgctaaggat tggaaacttc 300
tgaatgagca gattctcaat ctctctaaga aacgtggta gctcaaacag gctgtgcaat 360
ccatggtgca gcaagcaatg cagtatatcg atcagacacc agacattgaa actcggatag 420
agcttatcaa gacgctgaac aatgtatctg ctggaaagat atatgtt 467

<210> 5552
<211> 475
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-E7
<400> 5552

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attctcncta naaacaanaa tggngtctgg gcgtgaagag ttcgtataca tggcgaagct 180
cgcgaggcaa gcggagaggt acgaagagat ggtagagttt atggagaaaag tctccgccgc 240

cgttgacngg cgatgaactc accgtataag agcgaaanct tctctccgtc gcttataaga 300
 atgtgattgg tgctcgccgt gcctcgtggn gtatcatttc atcgatcgag cagantgaan 360
 agatccgtgg tancnatgac cacgtcacgg cgatntgtga atataggtct aacatcgaga 420
 nggaactctc cggnatcngc tacggaatcc ttangttgct tgactctana ctcat 475

<210> 5553
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-F10
 <400> 5553

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 cggcaccgcc ctgggtgaga tattgaaaca caatgagccc tccacatctc taagcacagt 180
 tctgggcgag atgttttaaaa acaacgagga gaaggaacat attttttcgg atctagaacg 240
 aggaacaatg ctaacaagac caatgggcga aggatatatt caatatctac ggctttctaa 300
 agagacgact caaccggcgg attctaagat tcccgggtctt tgggtcttctt ccgttagacc 360
 agagttttgt tgcacttata gagtaccaag accgggttacg caaagtgaac cccgaggctt 420
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<210> 5554
 <211> 490
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-F2
 <400> 5554

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 tcgaatcgag accagatctg cgtgaagatg atngagaagt gtatangagc gcatcggttt 180
 cggagattac agagattcat gcgtcaaggg aaagtgcga ttctttgtct cgntctcacc 240

gtcatcgctn tangtgnac aatcggagcc ggtaagtttg gtacgccgga naaagatata 300
gaggagatcc gtgagcattt cttctacacg cgtaaacgng gcgagcctca ccgtgtcctc 360
gtcgangtct cttccaaaac gacgtentcc naagacggag gaaatgggtg taacanctac 420
caagaccttc gatataaga agctattcgt tgatgaanga gacgaaagag aaatctcnaa 480
gaacgggact 490

<210> 5555
<211> 446
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-F3
<400> 5555

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agctgatgag ttagatagag aaatgggtct tattttaaca caagaggaga ctggtaggca 180
tgtaggatg cttactcatg gaattagaag aactcttgat aggcatacta ttttaagaac 240
cactcttggt gagcttggtg aaactctttg tcttgaggaa tgtgcgttgt ggatgccttc 300
tcaaagtggg tttatatttg cagctttctc atactttgag tcataaaata caagttggaa 360
gcagtgtgcc gataaatctc ccgattatta atgaactcct caatagcgct caaagctatg 420
cacatacctc aatccntgtc ctttgg 446

<210> 5556
<211> 450
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-F4
<400> 5556

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atccattgct tgtgcttata gatgagctta agaatgatga tattcagctt cgtttgaact 180

cgatccgctcg cttatctact atagctcgtg ctcttgagaga ggagcgtaca aggaaggagt 240
 taatcccttt tttgagtgag aatagtgacg atgacgatga ggtgcttctt gcaatggctg 300
 aggagttagg agtttttatt ccgtttgttg gaggaattga gtttgcgcat gttcttcttc 360
 ctcttttga atctctatgt actgttgaag agacttgtgt gaagagaaaa agctgtggaa 420
 tcgctttgta agattggatc tcagatgaaa 450

<210> 5557
 <211> 261
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-F9

<400> 5557

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 aagcgagcgg ccgccnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntga caaactctcn ggggtttttac 180
 ttacgtctgc gtttcaaaaa aaaaaaccgc tttcgttttg cgttttagtc ccattgtttt 240
 gtagctaaaa aaaaaaaaaa a 261

<210> 5558
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-G1

<400> 5558

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 tcgaatctgg cattcgggaa tgtattggcg gcagctgcta gagattataa aaaggaagtt 180
 cttgcaaatg aaaaggcaca aggatcaaga cctgtcaacg aggaagttga tcttgacgaa 240
 ttgatggatg atccagagct agaaaagttg cacgcagata ggattgcagc actcaggaga 300
 gaagtggaaa agagagaaag cattcaaana gacaaaggac atgggtgaat accganaaat 360

taaccaaagg cgacttcctt ggggaaaaat cacaaaggaa tnaaaaaant tatatgtcac 420
ntcctaccac aaaggagttc caaccgctgc aaagataatg ggacaag 467

<210> 5559
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-G2

<400> 5559

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acagtcattt gaaacatttg agtacacagc aattatttgc agatcccaca gtgcctccat 180
aacagagtac ggtggtgtac gagacggcaa gacgctaagn cacaaagggn ttctangagc 240
gccgtngatc atctcagcca atactcatct gaaaggcgga acacaactct ttgtncggcc 300
gggaaatggc tcaacggaag tttcaacctc acaagccatt tcaactctgtt tcttcacaaa 360
agacgcaatt cttctcgctg ctcaagactt aaaccaatac ccaattctaa aggctttgcc 420
ttcgtacgga cgaagacgtg acccgncggg tggaaga 457

<210> 5560
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-G3

<400> 5560

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agtcacgtt acaaagtcna ccgtccggcg aaatccggag gatctcgacg agactcaagc 180
cccgactcaa taatcttcac acctgaatct aatctcagtc tcttctctc cgcttcgctc 240
agcgtcgac gttgctcttc nacctccgac gctcacnacc gggacgactc tctcatctcc 300
ggtcctctc tgatgaacag gagcgaagat nagagggtaa gttcgagctg taaagatcta 360

gatntanaca agcgtggtac aaggtggaag aatanttgtactctagaaa atcaaatana 420
 gttanagcnt ggaaananga tttgagggtta aaaagatgat gaaaggccan atccttgaat 480
 caacctag 488

<210> 5561
 <211> 460
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-G4
 <400> 5561

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnattggtg 180
 agcaaagacg ttgcaaagtg gagcataaac caatccaatt ttgttcttan gganatcccc 240
 ctnggaaggg atccaaagaa taccgggaaa naactccggg aanaagtnna ccaacaattg 300
 ntncctnctc cgggataccc tggntccctt gatncctca actactaagt caattccgan 360
 gaacacganc ttttagcaaa gaattgnaac ctgaatccaa ngngttttac tccatatccg 420
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<210> 5562
 <211> 470
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-D9
 <400> 5562

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 tctcttttgg acctttcatg gctatgtttc tctgcaatgg nagtccaagc tcgtgatcac 180
 caacaccgac acgctaattg ctattggaga tagagctatg tttactgttt tgcttctatt 240
 cattgcttcg atctctggat tctctgttgt tcgttgtgtt actgatccat ctgatgttca 300

aagcccttca aagttttgta tacttcaacta aatagtcctt cacagctaac caattgggaa 360
 aaatggtggt ggtgatcaag tggagagtca tggaaaggga ttacttgtga gggctctgca 420
 anttgtcact atngatatat ccgggtttta ggagtctctg gnactccttg 470

<210> 5563
 <211> 485
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-A6
 <400> 5563

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 tgagtttctg gtcttttata aggttttcta acaagggaac ctttgttttt cgttgcagtg 180
 atcttgataa ccaaggtctg aaaggtttcc taccaaacga tatatcaaag ctaaaacatc 240
 ttcagagcat aaacttgagt gaaaacaaca ttcgtggagg aatacctgca tcgcttgga 300
 gcgttacgag cttggaagta ttggacctct cctacaattc cttcaatgga tctatccctg 360
 aaaccttagg agagttaaca tccctgcgga ttctgaatct caacggaaac tctttgtctg 420
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 agata 485

<210> 5564
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 5564

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 agtgtgttac agaagagttg tgtcagtga ggctcaggtg acaacagata ctaccgaggc 180
 accaccagtt aaagtagtca aggagtctaa gaaacaggaa gaagggattg ttgtcaacaa 240

attcaaacct aagaaccctt acactgggtcg ctgccttttg aacaccaaga tcaccggtga 300
 tgacgctccc ggtgagactt ggcacattgt cctcaccaac gaangtgaag gttccgtata 360
 gagaaaggac aatccaataa ggaattgant ccaagaaggg aataagacaa agaacgggga 420
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 nttg 484

<210> 5565
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-B1
 <400> 5565

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 ctgttgcttc taagtgggat tcgggttcag gagtttctct tccagctgat tttgttaaga 300
 tacaatacgc ctatgagctg ttaacaaatc taagtatgga aaagggacta tgacttatac 360
 gccattgatg aatcagtaca tattatagag gaacttgaaa aacaatatgc tgtggaagat 420
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<210> 5566
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 tccaagaagt caagaacca gaagaagaca tgacaagtga agttcttcaa acaatctcaa 180

gtggatcagg ttttgctcag ccacagagct catcaaccct ggatcatgat gaatctctca 240
tcaatcctcc tcttgtaag aaaaagagaa atctccctgg aaatcctgat ccggaagctg 300
aagtgatagc tttatcccc acgaccttga tggctacgaa ccgggttcct aatggtgagg 360
gatgttggca aangttacca agaggagacc aaaacttaca gcttcagccg gggaaggaca 420
taatcnttcc atggaaattg aagcagagga cgangcaaga gaagtg 466

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<212> DNA
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<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-B11
<400> 5567

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aaaatctgtt caagaaacac agtcactntg gtgagaaaaa tttatgttaa gactcctctg 420
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<210> 5568
<211> 491
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-B2
<400> 5568

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gacagctccg gtgatcgac aagcaacgcc tggaagatca gtctacacgg tctcactcta 180

cctcccgaag aagaaccaac agaaccacc tcaggccgat gatctccacg ttcgggtctac 240
gaaaccaact tacgtagccg tgagacagat cggtaggtac gtgtcgaaca atgtagccaa 300
ggacgaagct gcggctctga tggaaagcct ccgggattct aactggattt tgcccatcga 360
gaagagcaaa ggaaagttgc cggcgtatct tctcgctgtt tataaccgcg catctcatac 420
cacggctagg gtgattaatg agatcatggg tccgtttaac atgtanatna tgttaatgac 480
gcctcacgaa t 491

<210> 5569
<211> 445
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-B3
<400> 5569

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cccacaatat ccatcagtag atgaagatct cgatcgtgtg ggtgatggat ctggagacct 360
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tgtgtctgaa gaacaaggat ggatn 445

<210> 5570
<211> 457
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-B4
<400> 5570

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cgtaaaccga aatcctcaaa agaaattgcc gatcggtttg ctactgttca aaacctcgg 180
gccgagaacc gaaactgtcg gttttttcgg ttcgggtttc tcggtttctt ccgaactccc 240
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<210> 5571
<211> 395
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-B7
<400> 5571

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tccgttcctc gataatggcg gtttctttga gaagaaagct cgtgtcttcc ttctattaaa 180
aaagctaact ttcccccttt ttatactaac tttcaaaatg ggaaatttct gaaaaatgtg 240
ttgcaagtta agcttgtgaa agtttcgatt tttcgttttg gggttcttaa attttaggac 300
aattatttaa ctttttaaan gattatagga taattantat ccgttgggaa gtaaattgng 360
aaggctaagt nanttgatc tctttgatnt gttgt 395

<210> 5572
<211> 468
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-B9
<400> 5572

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tttctcttca attccgttac cgtcactgtc accgttcacc tccgtttatc tcactctcac 120
cgttcatctt cttcgatcta actcgccgtc gttcacctta taatggacac cgtcaacgat 180

tccttttcgc cgggatcttc cggaccttcg cgggcgacgc tttctcgtga agattgctgg 240
 agcgaggaag cgaccttcac gctcatccaa gcctgggggt aatcgctacg tcgacctcag 300
 cgangtaatc tccgtcagaa aactgggaa agangtgggc taacgncgtt taagaacggt 360
 caatacaaca accggtccaa aagttttcgg cggcaaatch ganccgttac gnaacgaagt 420
 tcaantgtta aaancggatt gatactccga agaagaagtc aaagtcga 468

<210> 5573
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-C1

<400> 5573

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 aaaacatgaa aatcctctca ctttcacttc tcttgctctt ggccgctacg gtctcggcat 120
 ccgttcagg gctcatcgaa ctgcgtcgatt cgaaaaccat ctttggaac gtagccgaac 180
 tcttagagaa agagaaactt tccatcaact acgccaactg cagaagctgg caccttggtg 240
 ttgagacctc taacatcata gacttcgaca cggtgcccgc aaattgcaaa gactatgttg 300
 aagactactt gatcacttcc aaacagtacc aatagactc caaaaccgtg tgcaaagagg 360
 cttatttcta tgccaaagga cttgccctaa agaacgacac cgtcaatgtt tggatctttg 420
 acctagatga tacctcctct ctagtattcc tactacgna aatatggg 468

<210> 5574
 <211> 483
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-C10

<400> 5574

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 nnnnnnnnnn nnnncgggcc acgtatttta gtgcgatcga gtttaacatc gtctatgacc 180

tctaccaata gtatgctggt ctttgtacat cctcatcctt tgattaaaca ttggctctcg 240
 ttattgagat ctgaccaaac ttctttcccc attttcgta gaattccaat gacttctgtg 300
 gttgcaacga ggtggtcggt tctatcntca gtcaaangag gaanagcaag aatttatcag 360
 aacgattnct ctaaaaagca tgtgggctgc gcatctgga tctcccttac actgcacaaa 420
 aataanggtt tatgtttgag ctcanaggac ccaaggggaa anatattggg cgtgggttct 480
 gca 483

<210> 5575
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-C6
 <400> 5575

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 cgcagnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngggcttcg 120
 gtggtgatca cttgggtcga atactgatga agaaactggc tgatcggctc cttcatcggt 180
 ttactaatca tgaaaccgct ttaaaccgag gccaccactg tgatttctcg tctacccttc 240
 tcttctcatg gctcagaggg gacagatcaa ggtacaagtg gtcttagtca taggaaggat 300
 cacaggatgt cctctcatgg tgtccacctg catgtccatg atcgatatgt tgtgatggga 360
 caatgggatc ctccaagtta cactgtcaaa gccaaagggtg aattatcact gggatagagt 420
 ataacggtat tgacaatgtg ctcgaaagtt cgtnanaaag gagaatanca agaggg 476

<210> 5576
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-A11
 <400> 5576

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tttcttctt cctcgttcct ttctctcttc tcattacgac gttttgggtg taaagatgta 180
cagctcagtg gatgacgtga aagatgcgta tcagactggt gcttctaagt gggattcggg 240
ttcaggagtt tctcttccag ctgattttgt taagatacaa tacgcctatg anctgttaac 300
aaatctaata tggaaaaagg gactatgact tatacgccan ttgatgaatc angtcatat 360
tatagaagga acttgagaaa ncaataatgn ngtnngaana attttgcaa anataaancn 420
tcccctaatz gaangntgnt tcntaangan cctgaaacgt gaaagggttt atgt 474

<210> 5577
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-015-Q1-E1-E2

<400> 5577

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aggaagccga cggcgggtag acccagtggg accgatggat ccgatttctc ataccgcatg 120
gtcgttgact ctcgttacac gaaggctact aaagaaaaag ctcgctctccg tcctttgatc 180
tttgttcagg ctgcgattta tgtaatcgga ttatcgtgtg cgtttctaac aacaactaaa 240
aaggatgaga agaacaccct tgctattgca gctgctggtg ctggccttagt gtgttcattg 300
ataggagaat taggttgacg acgtagcaga gtaaaccttt tgaggctcta cacggctgca 360
tcaaccattg ttatggttct ttctgtgttt tgtgctgtta ggagcagatt aaccatggan 420
gaacgcaata gctctggaac aaccgcgaag cttgagctcg cangtttcat tt 472

<210> 5578
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-015-Q1-E1-E3

<400> 5578

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aaagaaaatc aaagtctcaa tagctttggt ttgattctag ttccattcca caattgcac 120

taattctcct accgtagcct tttcttcttt atttgtcatc aacaactcct aaaattcata 180
 tgaaattaga gaaatcgaaa cgaaaagata atatttttca agaaagagct acatatacac 240
 cttttgacct tgtaaagttg gaaccctaga ggcctttcaa gcaaatcatc agggttaacaa 300
 tttcttgatc tttcttttta gcgaatttcc agtttttggc caatcatggc aaacccttgg 360
 tggacgaacc agagtgggtt aacgggcatg gtggaacatt cggctctctc aaggcatcan 420
 caaaaccatc aacaacaaag tcc 443

<210> 5579
 <211> 400
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-E5
 <400> 5579

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 gatcctatct gaagacagaa caaagggttct tgcttttgat tcattgccca ttttgagaag 120
 atgttcgaag gtcgtcctcg tgattcttgt ctagtttcaa cacttttcac catgccaagc 180
 cataaagaaa cgaaatggag ctttttggtt tctgggaaac gatcttttct caacaacgat 240
 gagtctgac ttcacttcaa gaagatgtac aagcttacta ctgattcaag tgaaggagaa 300
 gacaatggat ctcttcagan tcaggaacac ttatcccagg gatgaacaga gatgattcgt 360
 taagctgttt gattcgttgc tctagagctg antactgctc 400

<210> 5580
 <211> 463
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-F1
 <400> 5580

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 gacgggagta aagccgagaa gtttgtgtca aaagggatgt acaaggatcc gagtggctc 120
 tctgttctta ctggaaacaa caagaagaaa ctgatggacc atgcaagctt taaaggcttg 180

aaggatccaa aacgtaactc tcaagagaaa accctgagaa ccagcctgag ccggttgatg 240
ccaacagtca gttttaatga caagactcta aactcaccca catctcagaa acgaaaatcc 300
gctgtttatc ggctttcttt caaaaggagg tcgtgtgatg gtgaggaagt tactgagcaa 360
cgtaagttgt tgtaccgtcc aaaagcggga ttcacaattc cttcctcggg cagagaaaag 420
cagtctagcg gaagttgggtc tgagataccg ctttcaactt tta 463

<210> 5581
<211> 436
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-015-Q1-E1-F2
<400> 5581

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cttctcacca ttcttaccag ctctcagggg attctaacaa ctctttctca aagtgatgga 180
ggttataagt atgattatgc tactgttccc tttcttgctg aagtttttaa gctgatcatt 240
tcctggttta tttctctgga gaaagatgcg gacatcttcc tcaacaactt caagggatta 300
ctacgggatt ggaaagagtg tgcgattatt tgttattccg tctcctatct atctgataca 360
taacaatgtg cagtttgcta cattgactta tgtgggatac gtccacttat cagataatgg 420
gtaatttgaa gattgt 436

<210> 5582
<211> 428
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-015-Q1-E1-F6
<400> 5582

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gcgcagatgc taaagtgacc aaatccactg gtgatccggg taaagtttcg ggtccggctc 120
agttcacaac aagtgggtgac gtggcggagg tgatanagga gcttcgaacg gagaacaagc 180
agttaannag agccgttgaa gatctccggg aantantanc aaacgtccgt ccatactcgc 240

cggcgacaat tgattacgga tcacactcna agtatcgga atccganagg aacaacagca 300
 ncancaacnn caacaccanc aacaacaacg ggagatcgag agctgatcgg tggagcagcg 360
 agagaacnac aacgtctgat tactgtggga agacagcncg gaagatggca atctaccta 420
 ggagctga 428

<210> 5583
 <211> 457
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-G11
 <400> 5583

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 tacaagagac ctctagcttc atacttttta taaaaattct ctctttttct cagtttaatc 120
 tcaagaaatg gtttcaagat cgtattcaaa tctgttgag ttagcttcag gagactcacc 180
 aacgtttgga cgcatagaacc gacaaatccc acgaatcatg gccgttgctg gaatcatgtc 240
 aaacatcgat aatgactcta aagacactga tctgtctcct aaagatcgta tcatcattgt 300
 agccaatgaa ttacctatac gagctcagag aanggttgat ggtaatggta gtggtagtag 360
 taataagtan tacttgttgt ancaaaagggt tggaactttt ccttggaag aagaaatcac 420
 tcntctccaa ntgaaagatg ggtaggaga tgaanct 457

<210> 5584
 <211> 431
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-G2
 <400> 5584

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 accgggaaga aaacagctcc atcagttaag gtggttgagc caacaatgct ggtcatgaaa 180
 ttcccacctg gcacatctct cccttcagcc gcattgctaa aggcgaggtt tggtcgcttc 240

gggctgttag atcaatccgc cattaggggtt ttctggaaat catcgacctg ccgtgttgct 300
 tttctgtaca aagccgatgc ccagactgct ttctgatatg caacaggaaa caacactcta 360
 tttggaaacg tgaatgtaaa gtactttctc cgtgatgtgg atgctcctaa agccgaacct 420
 cgtgagccan a 431

<210> 5585
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-H1
 <400> 5585

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 tttccatttt cgttatctct ctctctcgcc gatcaaacc taggtgtatc aattcgttca 120
 gattcccggc ggttgggtctc actgtcatgt aagtttgatt catcttctct tctggatctt 180
 gagtgcagaa gagagaagag atctgagttt ttctgagaga gagatttttc tccctcgttg 240
 acccgatcag tttttttcgt cgctggggat tttcaaattt tttttgaggg atcgggtttg 300
 atttgttacg tagatggcgg attcttcacc cgattcgtgt ttcaaaggag gcaaatttag 360
 tgctccaggg ttctgatttc atccaactga tgaagagctt gtgatgtatt atttgaagan 420
 gaagatttgt aggaagangc ttagagttaa tgttatcggt gttgttg 467

<210> 5586
 <211> 497
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-H10
 <400> 5586

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 aaagcttccg tcaggggaca ccaagtggat caatgccaaa tgcgtgcta cgattggcac 120
 agtgtcgaac ccgtctcatg gaacgaagaa gctatataaa gcaggacaga gtaggtgggt 180
 agggataagg cccaaagtta gaggagtggc gatgaatccg tgtgatcatc cacacgggtg 240

CC-015-Q1-E1-H10

aggatgaagga aaaagcaaaa gtagtggaag cagaggaagg acatcgggta gtccgtgggg 300
 aaaaccgtgt aaaggcgggtt acaaaccagc tagtgtcaag aagaagaaga agcggtttggc 360
 agaagcagca gccaaaatgt gatatgggtg aacaagtttc gattttcctc aaacgtttcc 420
 ttcttttaaa aagcctccaa tggttaattgg ttacgttaaa aaaaaaaaaa aaaaggcggn 480
 cgctctaaaa gattcaa 497

<210> 5587
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-H3

<400> 5587

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 gaggaagctt acatagtaag agaaggagat ccggtagacg aaatgctctt cataatgcgc 180
 gggaagcttc taacaatcac aacaaacggg ggaagaaccg gtttttttaa ttccgagtat 240
 cttggagccg gtgattttctg tgggtgaggag ctttttaacct gggcttttaga cccacactca 300
 tcctcaaacc tccaatctc aacaagaact gttcgagctc tcatggaagt tgaagctttc 360
 gcacttaaag ctgatgacct caaatcgtg gcttcccagt tcagacgtct tcacagcaaa 420
 cagctaagac atactttcag gtactactca caacaatgga agacttgggc c 471

<210> 5588
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-H4

<400> 5588

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 aattcctaag gttgtttgcc gtttcattaa ccggattcga gactcttccc gctggatttc 180

tttttttcac gtcttctttt ctatttttta tggatttgggt attttgacat gttaagcaac 240
 cttcgtaaat cagtttaaaa tccgtgcttt ccgaaatttt tagaagaaac atggaagctt 300
 aaaattttga aattgctatt tggaaaagct atcatttcat aggcttagtc tttgtaattc 360
 ttctttactt gttgttcatt ggcatgaata tatgaaggat tttatatttg attgtgtgtt 420
 tgtttatgtt gttagaaatt gatcaaatg ggaaaa 456

<210> 5589
 <211> 495
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-H9

<400> 5589
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 cgcgttcttt ggtgtcattt tcctatccgt tcaaacggt ctagccattg cggtaggggt 120
 atcgttggtc aagatattga tgcaagtaac aaggccgaaa atgggtataa tgggtaatat 180
 tcctggaacg gatataacc gagatcttca tcattacaaa gaagcacaaa ggatcccggg 240
 atttcttggt ttaagcatcg aatctcctgt caatttcgcc aattctaact acctcactga 300
 aagaacatct cgttggattg aagaatgcga agaagangaa gctcaagaga agcattctag 360
 cctacagttc ttgattcttg aaatgtcagc cntgagcggg gtagacacaa acgggagtgt 420
 ctttttttaa ggaacttaaa gaaaacaanc gccagaagg acatccagcn tgtgttttgt 480
 aaacctctaa gcgaa 495

<210> 5590
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-A10

<400> 5590
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catccatatg cctcttgtga tgtggtttgt cggttacttt cccggaatct tctggctcct 180
 ttagcagaat tgtccggtgt cgccgtcctc catcggttgg ttcctctacc aacggtgggt 240
 ggctcttgtc tagcttctcc gtcgtccctc tccggcggtt taggctagct tttggccgga 300
 tttcttttcc ggttttgttt tatgttctcg ttttctatag atccaagttt gattttgctc 360
 cnttgtgttc naacnctgtaa agggctcaat tccttgaaac tccnttgttt aangggccaa 420
 nttgtttttc aagcgtatcg atttcaatta agt 453

<210> 5591
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-E10

<400> 5591
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 cttcttctgt tactctccat gtgtttcggt ccctgcgtct tttccaaatc tctcgtcct 180
 atctccgatg tggagatcag gcagaagaag agcgaatgct acggtgatat agagagtggg 240
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 gatttgatta ngagccaaga atacaagtat gtatgtacaa gtcatcactc ggggaaaagc 420
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<210> 5592
 <211> 431
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-B2

<400> 5592
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tacgctaaag gctttcacgt caccttcggt aacactctct acaaccacaa ccgtctcctc 180
 cgggtcccggtg gtcccaacgc gctcgacggg tttccttcat tccggttcga gtccatccct 240
 gacggtctac cggagactga tggcgatagg acgcagcata ctctaccgt ttgcatgtcc 300
 attgagaaaa actgtctcgc tccattcaaa gagattctgc gccggatnaa cgataaagat 360
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 gccgangaac t 431

<210> 5593
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-015-Q1-E1-B4
 <400> 5593

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 aatccaccgt tgaatcttcc ctctctgtat ctctccgtc gtcacatca tcggagatct 180
 cttctccgat catccctcct ctcttaaaa atccatcagt caagctagag gtaccggaga 240
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 gcacgacgtg taggaaacgg gtcgggttaa ccggattcaa gtgccgggtgc ggtacgatgt 360
 tttgcggggg tcaaaggtag ccggagatcc atggatgcag ctacgatttc aaatcggccg 420
 gacttaaaga gat 433

<210> 5594
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-B7
 <400> 5594

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tgtctttcgc tctgtcaccg tccctcatgt ggatgggtctc cccgttggca cagagacagt 180
ctctgagatc cccgtgacat cagctgatct cttgatgtct gctatggatc tcacacgtga 240
tcaagttgaa ggtgtgggtcc gagccgtgga accggacctg atcttctttg acttcgctca 300
ttggattcca gaggtagcta aagacttttg gcttaagact gtaaaagtta cgtcgtggta 360
tctgcatccg actatancta gtaagccttg gttccaangg tggttaattt angttgtttc 420
ctccgcccgg ggataaccct ttcaa 445

<210> 5595
<211> 472
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-015-Q1-E1-C1
<400> 5595

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gagattggtg agaattcgat accgaaagac gctgcgtatc agatcataaa agatgagctg 180
atgcttgatg gtaacccaag gcttnacctt ncttcttttg tgactacatg gatggaacca 240
gagtgtgaca aactcatcat ggactctntc aanaacgaac tacnttgata tggatgagta 300
ccctgtcaca actgaactcc anaacccgat gtgtnaatat tatagntcga ctggttcaaa 360
tgccccact cccaaggaat cctgagaacn gccnggtgng gaantanggg acaatttggg 420
gtcctcaag aaaanccatc aatgttaanc cccggaattg ggccttcaaa aa 472

<210> 5596
<211> 476
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-015-Q1-E1-C10
<400> 5596

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acttgatgat cctgatggt ttcatgaag attttgtctt tgatgatact gcttttgtct 120

ccggactctg gtctctagaa ccctttaacc cagttccgaa actggaacct agttcacctg 180
 ttcttgatcc agattcctat gtccaagaga ttctgcaa at ggannnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nntgagggtg agactgtctc aaaccggaaa aaaacaaaga 300
 ggtttgaaga aacgagacat tacagangcg tgaagaagga agccatgggg ggaaatttgc 360
 agcagagatt cgagattcgg caaaagaaag gatncaagat ttgggttangc acttttgaga 420
 gtgatattga tgctgcaagg gcttacgact atgcagcttt taagctcang ggaaga 476

<210> 5597
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-C11

<400> 5597
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 gcctgcttgt tggctctcta ggccaagctc ggtacaccac tcagattgct cgggtctcata 180
 tgattcctcc atgggttgct ttgggttcac caaaaacagg aacccttatt tatgtactc 240
 tccttgtaac catactcagt tcaataatat ccttcttcac cagcttagag gttttatcaa 300
 gcgtttttct ctttgctaac ctcttcattt tcaagcncct ggcaattagc attgcttggtg 360
 anacttttct aacgttgaaa nggatnncac tcctgaaagg ccggtttgtt naaantttcc 420
 cgggggttttc ccggtttttt gaaaaatggc ttccctccat tgggan 466

<210> 5598
 <211> 415
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-C5

<400> 5598
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accatacgg tctantagaa aacaatgagc tgacggttgt aacgaggctc acttggtgtg 180
 caatagctgg aacagttggt caaacaattg cttatccact ggatgtgatt cgtaggagaa 240
 tgcaaattggt cgggtggaaa gatgcttccg ctattgtaac angcnaaggg agaagcacag 300
 cttcacttga atacactggt atggtcgatg catttagaan aacagttcng tcatgaaagc 360
 cttggagcat tgtacnnngg gtttgggtccc caantcagtt aaangttgta ccaac 415

<210> 5599
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-015-Q1-E1-C8
 <400> 5599

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 tttcatattg ttaatctttt tcttcaagga aagaagagat tttgttttcc gtttctgggg 180
 gtttttcttg attctgatct ctgatctgat ctcatcatca ttgtccgtgg attctccgat 240
 gggtttctga ttgtgggttc tttcaaattt cttcactttt ggagcttttc ttctctctgt 300
 cttttgtttt ccttcagcta tggcttggaa tgagaccaa ctcaagaggc tctatcaagt 360
 ttggagagga agcaataaat ttctatgtgg cgggaggcta atatttggtc ctgatgcac 420
 atctct 426

<210> 5600
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-D1
 <400> 5600

ctgttacttt gccggtcccg gtccanaatn cacgggcntc accccaactg tantagtact 60
 gttcgtcttt cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnccc ttaaaactca aacactaaaa aattttcagt gtcgattcaa aaagttttgt 180
 tatttgatct gtttctgtgt aaaaaaatg gtgaaagatc tggttgggta tagattttat 240

ccaacgggag aggaattgat aaaccattat ctaaagaaca naattttggg taagacttgg 300
 ctcgctgacg aagccattag cgangatcaa catctgtagt tacgacccaa tttacttgcc 360
 ttctttatcg angataaaat cggatgatcc tgtgtggtac ttcttctgtc caaaggagta 420
 tacttctgcg aagaanaagg taacgaagag gactacaagt tcanggtatt gga 473

<210> 5601
 <211> 459
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-D12

<400> 5601

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 gaaaccaggg atgacgaggg atgatctggt taacattaat gctgggattg tgaggacact 120
 ctctgaagct atagctaaat gttgtcctaa agcaattgtg aatataatca gtaatccggt 180
 gaactccacg gtgccaatcg cagctgaggt tttcaagaaa gctggaacct ttgatccaaa 240
 gaaactcatg ggtgtcacta tgcttgatgt tgtagagct aatacctttg tggcggaagt 300
 aatgagtctt gattcccgtg aagttgaagt tccggttggt ggaagacacg cangaattac 360
 gattttacca ctgctttccc angtgaaacc tccttgctcc gttcactcaa aaagagattg 420
 aatatctcac anaccgcatc caaaaacggt ggcactgaa 459

<210> 5602
 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-D2

<400> 5602

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 ccattagatc agctattgtc actacagctt ggagaacaga tccatttggg gagcagatat 120
 ttgcagaagg gtcacctagg aagccagctg atccattcga ctatggtgga ggccttgtga 180
 atccagagaa agctacaaaa ccaggtcttg tatatgactt gggactcgaa gactatgttc 240

tgcttgcacg agagatgccg tgaataatct cgggtggtgat tctaanaaaa ttaatccgct 300
 ggtccctgta gatcttgtca ttgatcactc cggttcaggtg gatgtggcga agatcagaga 360
 acgcagttgc aaggcaanan atggagnctt ggagttccaa gccgttaacn atggaaaaga 420
 atttggtttt cctnangtgg gggattcgaa ggcccttttc anaagcatgc cttggtngnt 480
 acctcntngg gaatnnggga atagtttcan nccaagttca gccctangaa atagc 535

<210> 5605
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-015-Q1-E1-B12
 <400> 5605

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 tcgtaccctc tttactcagg tattttctga agttaaaaga tagaaataat gtctgaaaag 120
 gtgggagcga tgggtggtaa caagggtgga gcattcgacg atgggtgttt tgatggtgtg 180
 aagaaagtaa ttgttggaag agacttcaac aatgtaactt atatcaaggt tgaatacgaa 240
 aaggacggaa aattcgaaat tcgtgaacac gggactaatc gcgggcagct aaaagagttt 300
 tcaagtggat tatccgaaan gaatatatca cagccgttgg tggaaactac gaacacngnt 360
 tttcgggtta nggggttaanc gtttgaatca anttcattaa ctcttcaaaa accncttaat 420
 ggaannaacc tctccaaatc cttgggtcan acgaacatta ctnaggggaat ccaa 474

<210> 5606
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-013-Q1-E1-B2
 <400> 5606

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 tctcgtctct ctgtgtctcc gggataagta atcgaagatg aatatgattc agcgattcat 120
 gcaatctatg gcaaagacgc gtggcctctg tcatccagat tgcgtaaaag caagtagtga 180

gcaagaagat tacgatgcgt ctcagctcag tatttggtgg ataatgctgg gaaggaagac 240
gaccagggag aaatggatga accaagctct cagttcacta tcgaaaactt gcatcagtat 300
atggtggaaa atgtctggaa taagaggtaa gatgtgcagg gagagggagc aaccactcac 360
tgtcaaagac tgccttgaat gtgctttcaa gaaagggcta ccgagaagag aacattgggc 420
acatgtggga tgtacattca agggcccccc atttgcttg tcacaa 466

<210> 5607
<211> 477
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-B4
<400> 5607

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ttgactgatt atcttcttgt accgtacacg agacagaatc tgacgtggac gcagcacgcg 120
tttaacgaga gtatcggaga gattcagggg attgcgacgg ctgctgttga gaggtcaaaa 180
ggacggtggg cttgtttgca gaaacggacg gaggtgaagc ttcaggatct gccgtacgtg 240
cttggaacctt gttgtgtgtt gcataacatt tgtgagatga ggaaggagga gatgttgccg 300
gagttgaagt ttgaggtttt tgatgatgtg gcggtgccgg agaataatat ccgatctgct 360
agtgcggtta atacgagggg tcatatctct cacaatctct tgcacgtgg acttgccggg 420
acaagaactc tataggctct gtttttcacc ttttcctaatt ttgaaactga tttttta 477

<210> 5608
<211> 469
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-B5
<400> 5608

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagatccag 120
ttttaggggt ttcttctctg tgagcgaaga tgcgtgagat tcttcatatt caaggaggtc 180

aatgcggaaa ccaaatcggg tccaagtttt gggaagtggg taatctcgag cacgggattg 240
 atcagacggg acggtatgta ggagattccg agttacagct tgagagggtt aatgtatact 300
 acaacgaggc gagttgtgga aggtacgttc ctgcgcgtgt tctcatggat ttggagcctg 360
 gaaccatgga caagtgtcaa gatctgggtc gtacgggtcag atcttttcgac cggataactt 420
 cgtcctcggg cagtcgggtg ctgggaataa ctgggctaaa agtcactac 469

<210> 5609
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-013-Q1-E1-C10
 <400> 5609

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 tactacaact accactgtct cacaagaaag gtgtaacttg tatcaccgct tatatggttt 120
 ctgaaaccga tgcaatgttt gcttcagctt cttctgatgg agttgtgaat gtctgggatg 180
 tttcttttcc gtctcagcct agtgaggaat gtaaagtggg gtgtctggac tctatctgtg 240
 ttgacactaa agcaattgta acgctttcat tagcgggaatt gcctcaaaat cctgggtcgat 300
 ttgcccttgc tttgggcgga ttggacaaca aaatcaaact ttactctgga gaaagaacag 360
 gaaagtttac ttctgtttgt gagcttaaag gccacacgga ctgggattcn gagtttggac 420
 ttctcattac cgttacacac aacagaagaa atacccaa 458

<210> 5610
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-013-Q1-E1-C9
 <400> 5610

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 aaatcggaac acaatgcacg ccaaaaccga ttccgaggta acaagcctcg cagcatcatc 120
 accagccaga tctccacgta gaccaagtct actacgtcca atcaccatca cgcgactctc 180

acgacggaga aaaaacagca acatcgtttc actcaactcc agtactaagt ccgatgggat 240
 ctccaccgca ttctcactca tctatgggtc gtcactcacg tgaatcatct tctagtcgat 300
 tctctggctc tttaaagcct ggatctagaa aagtcaaccc taacgatggt tctaaacgga 360
 aagggtcacgg cggtgagaaa cagtggaaag aatgtgcggt tattgaagaa aaaggtttgt 420
 tagatgatgg tgatngaaac cggggg 446

<210> 5611
 <211> 464
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-013-Q1-E1-D4

<400> 5611

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 tcggcatggt ccgattcttc tctgtctctt gtatcctcga cgcgtgtatc gttcccggcg 180
 aagatttcat atctctccgg tatatcttcg caccgtggcg atgaaatggg taagagaatg 240
 gaaggattcg ttagaagcgt cgatgggaag atctctgatg cgtctttctc cgaagcttca 300
 tctgcgactc caaaatcgaa ggtgaggaag cacacaattt cagtatttgt tggagacgaa 360
 agcggaatga ttaatangat tgcangagtg tttgcaagga gaggatacaa tattgagagt 420
 cctgcngtg ggctgnaaan anacaaaggt ctaaatacc aana 464

<210> 5612
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-013-Q1-E1-D5

<400> 5612

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 tgaaccaga aaccctgaag tggaggcggt gataaacata aagaacgagt tacatgatcc 120
 acatggtggt ttcaaaaact gggatgagtt ttctgttgat ccttgtagct ggactatgat 180

ctcttgttct tcagacaacc tcgtaattgg cttaggagct ccaagtcagt ctctttcagg 240
aactttatct gggctctattg gaaatctcac taatcttcga caagtgtcat tacagaacaa 300
taacatctcc ggtaaaaatcc caccggagat ttgttctctt cccaaattac agactctgga 360
tttatccaat aaccggttct cgggtgaaat ccccggttct gttaaccagc tgagtaatct 420
ccaatatctg aggttgaaca acanctcatt atctgggccc tttcct 466

<210> 5613
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-E10

<400> 5613

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caaagcatct ctctctttct tcttaaactg cgacgagtgg agtccttggc gcgatcaaga 180
ttcaaaagaa attcgggggac tactactact caagactaaa taagatagga aatggggtga 240
tacaaagaag ttgtcctttt aagaattcca tctactaggag ttggaaagtc tgaaccagag 300
actttgggtg gtttctccaa aaacgacgag agtccagcgt ctagcagtat cangcaactc 360
tcttctact agattcnttc acaccatcan naaggagcca ttatgggagg gggaacttgt 420
gtcgtttgca ggtanacang ctttgggacc tactgagcca ngaatacag cnaacttcag 480
ggagt 485

<210> 5614
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-E12

<400> 5614

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gggcatgagt gttctcgttt ctcaggtgaa tcgtctccgg aaaatgaaca aaccagtc 120

cgagattggt tgcgcttcta ctggagatac ctccgctgct ctctctgctt actgtgcttc 180
cgctggaatc ccctcgattg tcttcttacc tgcggataaa atctccatgg ctcagcttgt 240
gcagccgatt gcaaacggag cgtttgtgct tagtattgan actgattttg acggatgtat 300
gcatttgatc agagaagtta cgggcgngag cttcctatctt actttggcga aactctcctc 360
aaacangnct ccgtctccna aagggtcaan angacgggag gcgattgaan attcctgc 418

<210> 5615
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-E3

<400> 5615

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aagtttgttg gaagagatcg aacgtgagtt tgaagctgct acaaaagaac ttgaacaact 120
aaagggttaat gacttcaccg gggacaaaga tgacgaagaa cactctgcaa agagaaaaag 180
tatgcttgaa gctattgaac gcgagtttga agctgctatg gaaggcattg aagcacttaa 240
ggtttctgat tccacaggaa gcggagatga tgaagaacaa tctgcaaaga gactaagtat 300
gcttgaagag atcgaacggg aatttgaagc tgcttcaaaa ggtcttgaac aactaagggc 360
tagcgattca accgcggaca ataacgaaga agaacacgct gcaaagggac aaagtttgtt 420
agaagagatn gaacganagt tcgaagctgc tacagagaac cctta 465

<210> 5616
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-E7

<400> 5616

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attggaatta gattctgggt tcttgggcta aaggtttctt catctccttc gaatcatcct 180

tttagggagc aagacgatga gtagaaaccc tttcctggat cctactcttc aagaaattct 240
tcaagtgatt aaacccacac gagcagatag ggatacgagg atcacagtca ttgatcaagt 300
tgcgtagcgt cttacaatcc gtanaatggt taagagggtgc tactgttcaa ccatttggga 360
tcctttgtgt caaatctctt cacacgatgg gggagactta gatatctctg ttgactaatc 420
agcggttctc catccttggt cactg 445

<210> 5617
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-013-Q1-E1-F12

<400> 5617

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cattgcctat ttgacgaacc aggaaatggt taaaaggcat ggagagtgtt gatttacaag 180
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ttttgatatc gatatttaca aacaatctgg aggcccttggt gaccctgaac ttcttgcgag 300
agagacatta gcgtgagtga aatagaggct ctctatgagc tgtttaagaa aatcagcagt 360
gctgtgattg atgatgggct aataaacaag gaagaattca gttagccttg ttcaagacaa 420
ataaaaaaga gaacttggtt gca 443

<210> 5618
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-B11

<400> 5618

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ccgatcgaca attccgacat catcgtcaca gcgtcgcgtg acaaatccat catcctctgg 180

aaactcacia aggacgataa gtcttacggg gttgctcagc gtaggctcac aggtcactct 240
 cacttcgtgg aagatgttgt tctctcatcg gacggtcagt ttgcactctc cggaagctgg 300
 gacggtgagc tccgtctctg ggatcttgcc acgggagaaa caactcgtcg attcgttggt 360
 catacgaag atgtgctctc tgttgcatte tctactgata accggcagat cgtgtctgcn 420
 tctcgtgatc gtacnataaa c 441

<210> 5619
 <211> 448
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-F9

<400> 5619

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 caccttcgac aatatttctt gatgagatcg acgcgatcat aagccaacgt ggtgggtgaag 120
 gccgcagtga acatgaagct agcaggcgct tcaaaaccga nctgctcatt canatggatg 180
 gggtacagaa aacgaatgag ctctgtatttg ttttagcagc aacaaatctc ccctgggaac 240
 tatatgcagc tatgtccgg cgtctanaga aacgaattcn tgtaccttta ccggatccag 300
 aagcaagaag aggaatgttc gagatgctta taccgtcaca accaggtgat gagccattgc 360
 ctcatgatgt gttgggtgag aaatctgagg ggctactctg gttcaagaca ttcgaatact 420
 ttgtaaggaa ctgcgatgca ancactga 448

<210> 5620
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-G1

<400> 5620

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 gagtcttttt gatgggatat acaaatttta gaaacctgtc tcttgggagg ggggtgaang 180

acttaantgc ggccataggg atctgtaatg ccttgaggga tggacctgat atacttgttt 240
 gcgacnaggc tcacatcatt aagaacacca aggctgacac aacgcaanca ttgaagcaag 300
 ttaaattgcca gagaanaatt gcccttaact ggctcacccc ttcaaagaca atctcatgga 360
 gtattnnatg tatgggttga ttttgtgaga agaaggattc tttgnngaaa nttccccccn 420
 gaanttttag naaaccgctt ccaanantcc caatagaaac acggncatca atatganttc 480
 aactggc 487

<210> 5621
 <211> 477
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-G4
 <400> 5621

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 tactccgacg ttttgggtcaa acccttctct ctccatcaca ctatccctca accgccgtgc 120
 tacaccgtgt tacttcaaca ccggagtgat ggtcatcgag ttaaagaaat ggcgagaagg 180
 agattacacg aggaagatca tagagtggat ggagttacan aaacggataa gaatctacga 240
 gttaggctct ttaccancgt ttttacttgt cttegccgga aacatagctc cggtagatca 300
 ccggtggaac caacacgggt taggaggaga taattttaag aggactgtgt ccaagatttg 360
 catccaaggt ccagtgaagt ttgttgcntt ggantgggaa agggaacca tgggtaangg 420
 tagatganng gccaaacttc ccgcttgann cnccttgggg ttcaaangga ttgtacg 477

<210> 5622
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-G8
 <400> 5622

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tcgcatcatc ccattctatct ggcttcagag ccaagaaaag tagtaatggt ctcaaagatc 180
atggggaggcc aaaattttca tttaactcac atactcatgg agaaacgtca tccaagataa 240
gtgacatggc tgaaatcttt gagcctgatg tggaggatca ggctatagaa gaggatccaa 300
ttattgaatg cccaacagt ttgatgaaa gatcagaaaa caggcagggt gtttctgttg 360
ctgagtcgag agaagttttg cacgagtgc ctaaagatgc ggtaccaag cttcaagaaa 420
ttcctctaga taaaattaga cctganaaaa agaagctctg aactg 465

<210> 5623
<211> 473
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-H1
<400> 5623

accggtcaga antcccggt ccaccacgc gtccgaacac gcgtccggac gaatccgtcg 60
gaaaccggaa tcaccatgga ttttcctccg acgaagcttg attatcatgt agacatgttc 120
aatcttcagt ctattccag atttcnctcc ttatttaagg cgcaagatgg acgcatagct 180
ctaatactag aatcaacggt gtttcatcca caagggtggtg gccagccgtc agacaccggt 240
ttaattgttt tctccggttc ggatttgaaa ttttccgttc aagatgttcg atcgaaagac 300
ggaattgttc tccattacgg agttttcgaa ggttcgaatc ctgaaagtgg attgatagtg 360
agaaagggaa agaatttact taactgttga tgaatcaaag gcgtaaactc aattcaagtt 420
tgcactcaag ctggacactt gctagataat gtgttatgca anaaagttgg gtt 473

<210> 5624
<211> 448
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-H2
<400> 5624

acgcgtccga ncgtttcgtc ctcttcgttt ccttcttcca ttaatacaaa gcaaataccta 60
ctctgaaagc ttctttattc aacctctcta cttcagtttc tctgtcccca ttttcatct 120

gagagttaaa actgtaacct caaaatctga gataaagtca aaaaaaaaaac cccagtttat 180
gattctcatt ttctctttat aatcgaaagc ttcgattttt aacaaaaccc agaannnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngga atattgggtg 300
agaatctgag taatgggatt tacataaaaa gattctatgt aaatactaaa ataatctgga 360
aattattaaa tttccaaact ttgtgttcca ttttgtggac tcaaatttgt ttaaaaagat 420
ntcaaatcaa gagagattga gaanacca 448

<210> 5625
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-H3

<400> 5625

acgcgtccgn nngacgcgtg ggtcagtaga tcggaaaatg gagccatgga ttgacgaatt 60
aaccgacgac ttacagagtg taangcttta catcagccgg aaccaccgtg aatcgaagca 120
caagctccgg ttctcgctct tctcctccg ccgcagcttt aacaccagca ccatcagctc 180
acggttcatt ctcatcttcg aaactccctc ctctactccg atcatctctc tcaactctccg 240
atctcagatt ccgtctccgt ctcggttccg gcgacatcgg ctctgttttc ttagccgaat 300
tcaaatccct aaccgccgta ananaancca ccgccgtnaa attacctctg ttagcagnga 360
aagttatgga taanatagga gctcgcgagc agaagcanat anngtananc taagacggag 420
nagagagaat ctccgaatcc cctgatcatn c 451

<210> 5626
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-H6

<400> 5626

cttcttcttc gttgccactg ccccaattaa ctctgtctat ctctctcttc atcccctaga 60
ttgaaactaa ttgcaattgg agtgtatatt gcagtatcta gtttttgant ctctgggtat 120

tcctttatgg atccagtaga tatggttgtg tcacagccaa ttacgcctgn tcaggtttcg 180
 tttctgcttg gagtcattcc tcttatgata gcatggctat actcggaatt tctggagtat 240
 aggaggtctt cttttcacgc taaagttcat tcangataac aatttggttg aactggaaat 300
 ggtgacganc aaangangatg anngaacagt tttaatggaa ggaggtcttc caagatctgn 360
 ctcttcangg tttatacgct cagcgantcc acaatanatt tgattnnngt tctgacnttg 420
 gaagact 427

<210> 5627
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-H9

<400> 5627
 gcatgccaag tctccaaatc atggaaccgc gccgtctttt actccctccg ccgccttaaa 60
 accatgccgt ggttggtcgt ctacaaccag agaaattctc cgccgtacac catggcgacg 120
 atggcgatgg cttatgatcc caagtccgag gcctggatcg agctcaacac cgcacatctt 180
 cccgtcgaac acgtctccgt tgctcgatcc tctcactcca cggttgctcta cgctttatct 240
 ccggcgagat tctctttctc aaccgacgcg ttcatctga cttggcaaca cgtggcaccg 300
 cccganaagt ttggaggatc gatccaatcg tgggctgtaa tcggacggga gnctgantat 360
 aaccggang tgtgtgcaa tttccaaggg aggatagant cncctggng ctgttcgna 420
 tctcaatccg ggagaacggn cctgg 445

<210> 5628
 <211> 477
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-013-Q1-E1-A12

<400> 5628
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 cgagacaaat ggccgcccgc gctgctcgtc ctctcgtcac catccaaacc ttggatggtg 120

acatgtccac cgatcaatcc tccaccgtcg tacttcccga cgtcatgacg gcgccagttc 180
gaccagacat cgттаacttc gttcacgccc aaatctccaa caacagccgt cagccatacg 240
ccgtatcgaa gaaggccggt caccagacct ccgccgagtc ctgggggaacc ggacgtgccg 300
tgtctcgat ccctcggtgt cccgggtggtg gtactcaccg tgctggtcaa gctgcgttcg 360
gtaacatgtg tcgtggtggt cgtatgttcg ctccanccac gatctggcgc cgctggcacc 420
gtcgtgtcaa tgtcaacatg aagcgtcacg caatccgtct caactatcgn tggaact 477

<210> 5629
<211> 427
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-A5
<400> 5629

acgcgtccgc tctgtttgcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc tatggacgct ataaggaagc agcttgatgt 120
gctcatggga gctaaccgaa acggcgacgt tcaggagggtg aatcgcaaact actacgaccg 180
tgatgtgtgt cgtctttact tgtctggtct ctgccctcac gatctcttcc aattgacgaa 240
aatggatatg ggaccatgcc caaagggtgca ctctttgcag cttcggaag aataccgaga 300
agcaagggca aaagggtgtg ataactacga cagggaattg gaagatgcca tagacaggct 360
tatcgttgag tgtgatanga agattggtan ggcccttaag cgtcttcaag aagangacgc 420
caaagct 427

<210> 5630
<211> 444
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-013-Q1-E1-A6
<400> 5630

attccccggn cgacccacgn gtcngagag aagagagaaa catttcgaga caaatggccg 60
ccgccgctgc tcgtcctctc gtcaccatcc aaaccttgga tggtgacatg tccaccgatc 120

aatcctccac cgtcgtactt cccgacgtca tgacggcgcc agttcgacca gacatcgta 180
 acttcgttca cgcccaaata tccaacaaca gccgtcagcc atacgccgta tcgaagaagg 240
 ccggtcacca gacctccgcc gagtcctggg gaaccggacg tgccgtgtct cgtatccctc 300
 gtgttcccgg tgggtgtact caccgtgctg gtcaagctgc gttcggtaac atgtgtcgtg 360
 gtggtcgtat gttcgctcca accaagatct ggcgccgctg gcaccgtcgt gtcaatgtca 420
 acatgaagcg tcaccaatcg tctc 444

<210> 5631
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-013-Q1-E1-A8
 <400> 5631

tcccggggccg acccacngt ccanttctct cntccgtcaa tatggaaggc gtcaccgtcg 60
 tgtctttctt ccttcttttc ancgccaccg ccatggctgc caagtccacc gtctccttcc 120
 gtgacggcga tgttaccaa cggagacttc gagctangac caagtccatc agacatgaaa 180
 ggaacagaaa tactaaacan actaccaata ccaaactggg aagtcacagg nttcgtcgaa 240
 tacattaaat cangacatan acaagggtgac atgcttctcg ttgttcccgc cggtaaattc 300
 gtgtaagact tgggaacgaa gcatcgatca aacagnagac ttanagtggg taanggaatg 360
 tattactcac tcacttttag ngctgctaga acttgtgcac aanacgagga gacttaacat 420
 atctgtagca cctgacnccg gtgtga 446

<210> 5632
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-013-Q1-E1-B10
 <400> 5632

acgcgtccgc ggacgcgtgg gttggaggac acagagaagc gcaaattatc agacagagtg 60
 agaacgaaga agaagaaagc acaggatgct aagcttgaga tattcattac cttatcttct 120
 tcttcaaaca agggaatcat caactaagct cttcaccaaa aagcctaaca atgttgtggg 180

ttgtgcggcg agaggtccaa gacctcggtc tcctcgtgta tggaaaacaa ggaagaggat 240
 tggaaactatc tctaaagctg ccaaaatgat tgcttgata aaaggattgt cgaatgttaa 300
 agaagaagtt tatggagcgc ttgattcctt cattgcttgg gaattagagt tccctcttgt 360
 tatagttaag aaggcattag ttatacttga agatgaaaaa gaatggaaga agattattca 420
 ggtgacaaaa tggatgctga gtaaaa 446

<210> 5633
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-F7

<400> 5633
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 ctgcaccatg ttcgatctc gctatgttcg cactacactt cccaagtatg agattgggtga 120
 gaatncgata ccgaaagacg ctgcgtatca gatcataaaa gatgagctga tgcttgacgg 180
 taaccaang cttancctag cttcttttgt gactacatgc gatggancca gagtgtgaca 240
 aactcatcat ggactctatc aatagccaac tacgttgata tggatnagta ccctgtcaca 300
 actgagctcc atanncgatg tgtagacatn atagctccga ctgttcaatg cgccatncga 360
 ggaatctgag accgcggtgg gactanggac agttggttct canangccat cntgttatcc 420
 cgaatggccn tc 432

<210> 5634
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-B4

<400> 5634
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 nnnnnnnnnn nnnnnnnnnn nnnnnatatt tgcagttgac aattcgttct ctttgggaaa 120
 ttagagatgc aggcacaaag agcgcgactg tttaaagaat acaaagaggt acagcgagag 180

aaagtagcag atcctgatat tcaattgata tgtgacgata ccaacatatt caaatggacc 240
gctcttatca aaggaccttc ggagactcct tacgaaggcg gtgtttttca gcttgctttt 300
tctgttcctg aaccttatcc ttgcaacct cctcaagttc gattcttgac caagatatcc 360
catcctaatag ttcatattcaa gacagggaga aatatgtctc gacattttga agaagcttg 420
gagtcctgct tggacgctca atctgtgtgt agagctatca tagcattgat ngctcatcct 480
gagc 484

<210> 5635
<211> 450
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-B8

<400> 5635
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tcgccgccgg gacaactcag gttgttacag atgataaaca tgcgagataa tccaacaatg 120
catgtcttac aagcttcaaa gtttctatct ttagctctta ttttgatcca gttgctgtct 180
actcaactct ttgctcaaag atctaaaagt ccatggcaaa cactcactgg agatgctccc 240
cttgtcattg ctgcgtggtgg gttttctggg ttgttgccag attcaagtct cgatgcttac 300
agttttgtat cgcagactag tgttctcggg gctgttcttt ggtgtgatgt gcaactaacg 360
aaagatgcaa ttggactttg cttccctgat gtgaagatga tgaatgcttc caaatattca 420
agatgtttac cctaaaacgg aaaacttctt 450

<210> 5636
<211> 492
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-C3

<400> 5636
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tcctctttta tctcaccgtc tgatcgctta gaagcaacca tgcctcaggg agattacata 120

gatttgcaca ggaagaggaa tggatatcgc ctcgaccact tgcagagaaa gcgcaagaag 180
gaggcgcgtg aagttcacia gcactccacc atgggtcaaa agtctctagg tatcaagggt 240
aagatgattg ctaagaaaaa ctatgctgag aaagctctca tgaagaaaac attgaaaatg 300
catgaagagt catcatcaag gcgtaaggct gatgagaatg ttcaggaagg agctgttcct 360
gcttatcttc ttgatcgtga agacaccact cgtgcccaang ttcttanacan caccattnaa 420
caaaaannnga aangagaaag ctggcnaatg ggaagttcct cttcnaaagt ccgttcaant 480
tgctgaaaat ga 492

<210> 5637
<211> 432
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-C6
<400> 5637

acgcgtccgg aaacagtcaa gtactgctca gagacttgca ccgattcaag aacataacaa 60
tgaagagaga caagaacaga aaccgataca atcgctcatg gacatgccga tacaatacan 120
agagaagaag caagagattg aagaggagcc taggaattca ggggaaggac catttgtgtt 180
agattcttct gctaaatggg aaacattcga tcatcatccc gtgacgccat tgagctcgac 240
tactgcgaaa aataacgcga tcccgcgccag gtttaattgg gaattctttg attgagaaaag 300
ttcacatttt gtgaaacttt ttctttcttt tatcttgtat gcttatataa ttcttgtgtg 360
gaagtgttgg ttttttttca ggcttcttct tcttcttctg caccatcatt atgattcttt 420
tgatgtacnt at 432

<210> 5638
<211> 449
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-D3
<400> 5638

acgcgtccga atttctagaa atctcagatc cataaaattt tccgaggaga gattctctaa 60

tcagagaacc tcacaatggc cgcatataga gccgacgacg agtacgatta cctcttcaaa 120
gttggtgtaa ttggagactc cggcggttga aaatccaacc tcctttctcg attcacgcgc 180
aacgagttca gtctcgaatc taaatccacg atcgggtgtag aattcgccac tcgtagcatc 240
catgtcgatg ataagatcgt caaagctcag atttgggata ccgctggcca agaaagatat 300
cgagcaatca caagtgcata ttacagagga gctgtaggag cgttgcttgt gtacgatgtc 360
acaagacatg tgacgtttga gaacgttgaa agatgggttaa aggagcttcg agatnataca 420
gatgcccaata tcgtcatcat gttcgttgg 449

<210> 5639
<211> 506
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-D4
<400> 5639

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ttagagaagg caacttcggc tctcagcgaa gccaaagaat ccgttacaag caccgctgaa 120
tccgtcacgc cttctctcac tgatgctgag aaaaccgtta accaaaccgc caggagcact 180
ctaactgacg ccgagacaac cgttgcagca tctgttgaaa cggtaagac cgaggctgca 240
gccgcaccag acaaagcgtc tgggtgtgtct acacaggcta aggatgcagt ggacaaagct 300
ttttctagag gtatagaagg agccaaatct ttgcttcaaa ctttcgaagc gaagagcagc 360
gatatttccc tcaaagcttg ttggangtgt taacaatcct gtgaagtgga gcatcgagca 420
ncaaccgtgg caaaaccgag aactttccag tatctacang acaaacaagc ctctgctaan 480
cgtctggtga aaaagaaccc cgttgt 506

<210> 5640
<211> 452
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-D7
<400> 5640

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 catcgacctt gctcaaattc atcaaccatg tcttacgatt atctcttcaa gtacataatc 120
 atcggagaca caggtgtggg aaaatcgtgt ctgcttctgc aatttactga taagagggtc 180
 caaccagtcc acgatctcac cattgggtgt gagttcgggtg ctcggatggg caccgtcgat 240
 ggacgcnnca tcaaactcca natttgggac accgctggat aananncttt tanatncatc 300
 accanatcat actacagagg agcagccgga gctttactgg tttatgacnt cncnaggaga 360
 gagacgttta atcatntggc aagcnggttg gaggatgctc ggcaacatgc anatccnaac 420
 atgaatatta tgctnattgg gaacaaatgt ga 452

<210> 5641
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-D9

<400> 5641
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 aactgacgg tgttgttana cacctttana tacacacnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntacatt attttttgac 180
 agcaattctt agtttctctt ctatccccctt tctgggtttt gtttgaaccc tacctcgctt 240
 tggatccagt ggttttaagt taaaggtaaa nttatcgaca gtaagtatat tcctaattggc 300
 nggttccaat cnttcatctg ntaaacctgn angagttnta agtgatnctt tatgtactgg 360
 agctctggca tgccngtgct ggaccnctg tcnccctaac tcctgaagg ggaacncagt 420
 ttaatncttc ccggggaang ggcaca 446

<210> 5642
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-E4

<400> 5642

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 ggtctcgtca ttaccgctat cttcttcata tatgaagcta catcatccag gaaaaaccga 180
 agcgtcggaa aggagctcgc tacttcagca gttgcatctg tcttcttggg ttttgatcg 240
 ttgtttttgc tacttgctag tgggtgtttat gtctgacctt tcttcctcaa tactattccc 300
 aactagttca aagacaanga aaacagattt atcnttggtc aagttacaat caggagttat 360
 gaatgttaaa gacttgagga agtagccttt aaacnccaag ttacaattaa attatcttch 420
 tcttttaacg ctaaaccgaa ttttggttc aa 452

<210> 5643
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-E6
 <400> 5643

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 ggtcaaattc gacattgatg ccaatggaat tctatctgtc agtgcttcgg acaaaggtac 180
 aggaaagaag caggacatca ccattactgg tgctagtacc ttaccaaagg atgaggtaca 240
 cacaatggtg caagaagcag agaggtttgc aaaggaagac aananaaga gagatgcgat 300
 tgacacanna gaaccanggc tgactccgtc gtttaccaga caganaagca gcttanagan 360
 cttggagaag acaattccag gtccangtga aanacnangt tnanagtaag ctcccaggac 420
 tgaagggaga nga 433

<210> 5644
 <211> 412
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-E8
 <400> 5644

acgcgtccgn ccacgcgtcc ggaagaactc aaacgcaaga cagaaagatc aatggcgagc 60
aacggagtta ccaactgtaa cgcaaacgcc aatgtttggc ggttcaaagg aaacgggtgca 120
acgagtgatg cggcggcggt gacgttgaga aagcttgctt ttgggatgtt taaaaactgc 180
accatgaaca gtggaaagac cttttgttc ccaactcccg gcgagccctc cgcccattcc 240
aacttcagga cttgcccgga agccgaggaa gccgttgccg cagctgcacg ctccggcatg 300
gctaactctt acgcaccag ccctggagtt ttcaaggcta agaaggcg tggctgaana 360
tttaaacgga gaattccgac caagcctgan ngccgangat gtgtatatca cc 412

<210> 5645
<211> 493
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-F10
<400> 5645

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gccacgcgt ccgaaaagag aatctctcag aaggtagacc tccaacaata gcgtgaatct 120
ctctttctct ctctatctct ctatctccga gatcgcatca ccggaaatch ctttctacgg 180
tgggtggtggt gacagttgac cagagatggc ggcggagaat gagagaaaat ctccttcagc 240
agtctccgat atgggagctt gggcaatgaa tgtgataagc tccgttgga tcatcatgng 300
cgaataaaca acttatgtcc tcttctggga ttgcattta gtttcgctac aactctcaac 360
ggtttccact tcgctttaac cgcattggtc ggtatggtat caaacgctac cggattctct 420
gcttcnaagc atgtacctat gtngggagct tanttgggtc tccattgtcn gnaatgtcc 480
gctaagtgct ggc 493

<210> 5646
<211> 473
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-012-Q1-E1-F2
<400> 5646

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 ttcccttttc atccttttga aatttctcgt ctttcttctt cgaaattgga aactcacagc 120
 agcacctgaa aaataacatc anaagcttca agatccaatt tgggtcgttc tgtgttttct 180
 tctgatgggt ctcgtcgaaa tgtagaacaa gtttgagat gttgacaatg gacaaggaat 240
 ttgattcaaa gcttactctt caaggggaatt catcttcaaa tggtgaaact atttccagaa 300
 gcaaaagctt cgcctttaag gctcctcang agaatttcac ttaccatgat ttcgagctcg 360
 gcaagatcta agggcggttg ctcttaatcc aaagggttgtt anggcgaaga agaaggataa 420
 tgggaactgt gtangccttg aagatnaatg gacaaaaagt ttatcaccaa ggn 473

<210> 5647
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-012-Q1-E1-B3

<400> 5647

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 ccgttctttg cgggtggttac tttcgcgggt ctggtgcaag gaatgtttat gaggaagctt 120
 tcaacgggaa ctactgggt ctggtctggt gatgaagcat tggagctctt ggaatacttt 180
 gctattgctg tgacaatcgt tgtgggttcg gttcctgaag gattgccttt agctgtgact 240
 ctaagtcttg cgtttgccat gaagaaaatg atgaacgata aagctcttgt gaggcattta 300
 gcagcatgtg agactatggg atctgcaacg acgatttgca gtgacaagac tggtagactc 360
 acaaccaatc acatgaccgt tgtgaagtcc tgcatttgca tgaatgtgca agatgttacc 420
 aataaaaggt ccanccttgc aatccagaaa tcccggaatc ctcngtgaaa tttttttgat 480
 caan 484

<210> 5648
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-010-Q1-E2-C3

<400> 5648

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tgacacattg aaggaaattg gtgcttcttc gaagtcaaac tcggtgttca taccgcacgg 120

tccaggcgct gttagggaca ttgcttcaca gatcagggat ggtcttcttc agggtaactc 180

tgctgctgag tagagaaatg tctcaaagta caaaaaggct ttttcagagt tttagagttg 240

tgttactact tgctactcag tttatctttt agcgggttggc tctatatggg ttcttaaatt 300

tcttatcggt tctctcttct aggccttgtgg acttgatcca ttttcttggt ttatgggttt 360

gtggatagag tttgggcttg aaaaatattg tgttatttgg gttttaatgt cgtaaactcg 420

ttattaatgt taaacagtgg ttaaagaatt gttaacgaga aaaaa 465

<210> 5649

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-C5

<400> 5649

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gagaagtcgt acccgaacgt tcggatccgg gttcgggtct actccggcga tgtctcttcc 120

acgtctacgc ttccgattcg tataacttaa cagttcatgt cactgacttc atctccgggtg 180

tctggacgac gatcctctcc gtctcgcagc tagacgatat gagggatact gttgggattg 240

gtgggttcgtg gtctgagttc gtcgattata ctggtgcttc cttgaaatcc gacaatgtga 300

agcttctctt gggagaaact tcagtttcaa atggtgtcaa aactgcgcga ttagtttctc 360

agaaagccaa aggaatgcct cgcataaatg ttcccttaac aaaagatggt ggaatcatct 420

gctagtgaag caatggcaaa tctgtctctc gagtt 455

<210> 5650

<211> 495

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-C6

<400> 5650

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tctccattaa caaggagaaa cagagcacca ccattcctctg tttcctctgt ttatctaata 120
tttctctgtt tcttctctta ctttttaaat ttctcaaacg ctcaatcatc gccggttttc 180
gcctgcgacg tagctgcaaa cccttctctc gccgcctatg gtttctgcaa caccgttttg 240
aagatcgaat accgagtcgc tgatctgggc gcgaggctca cgttgcaaga aaagatcggg 300
tttttagtga gtaaagctaa cggcgtgact cgtcttggga ttccaacgta tgaatggtgg 360
tctgaagcac ttcacggggg ttcttacatc ggacccggga acgcatnttt tctagccaaa 420
gtttcccggg agctaacgaa gttttccgc aagggnata actccaacgg ccggcttcgt 480
ttnaaacgta tcctc 495

<210> 5651

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E2-C7

<400> 5651

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aaaggatgcy taatgtggag acctatgtca agtctatcaa gcccgagctg gttgtacaag 120
ccgaacccat tacagatcca tatggccctt ctatcgtaga tgaaaatttg gaagctattg 180
ttgtcagcaa agagacatta cctggtggct tgtcagttaa cagaaaaaga gcagaaagag 240
gtctttcaca gcttaagatt gaagttgtgg aaatagtttc tgatggatcg agtggaaata 300
agataagttc aagtactctg agaaaaatgg aggctgagaa agcgtctaaa caaaaacaac 360
cagcagaaga aaaagcatca tgaactcatc atatataaac tctcaacttt gcatgtaatt 420
taatactctt ttgtatactc aaaatgctgt aaatt 455

<210> 5652

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-C9

<400> 5652

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acgcgtccgt acannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
cataattaaa gatctctatc aagagagaga tcttttattg tcttcttctg ttaaaatctt 120
ttgatagatc ttcactctct gaaagtcaag atcttagtct aggcaagtaa atatgtggta 180
aagcaaagcc cttcttgaaa ttggtcatat atggctgggt gtatcggaaa atggcaggat 240
ttttctcggt aggacacggc ggaggaggaa aactccaga caaccacaga acaaacta 300
ataatccttc ttcacggga acagaatctt ggctttgggt cagaaaccct aactctaacg 360
ctgacgggtg agaagctggt ccttcttaca aaggaaccct tgagctatgg caacanccaa 420
acaatcaaga aatcantttc cagcagcagc aagcaaca 458

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<210> 5653

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-D1

<400> 5653

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acgcgtccgg tcttaaactc attcattctt tctctctcta taaccagagt tctgtctgtg 60
aaaacacaca aatctaagag aagttatgaa taaacaagat gttatgaaac ttcagacttg 120
tgttctgaaa gtgaacgtac actgtgaagg gtgtaagcat aaagtgaaga aacaattgca 180
gaaaatcgaa ggtgtttact ctgtaaaagc agatgtagaa caggggagag ttactgttac 240
agggaacatt gaccagctc ttctgggtta gaaacttagc aaatcaggca aacatgccga 300
gatcttnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttc ctaatctgaa 360
tgggcaatth tgcaaattcc aacatgggtg gnaacaataa gcctaaaagg gtgggaaaag 420
agaattaacc aagtcaangg gttaaagctg ttggttgcc gttggaag 468

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<210> 5654

<211> 504

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-D10

<400> 5654

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cgcatttgcc ctgagcgaaa gagagagaat gtatttgacg agttccagga gaaatcagag 120
ctagagaaat ctggtaatgg ggagagaact tgtagacaaa cacatggata agaaagcgaa 180
tagtttgaca gctagctcga cgggatcttc agatgataat aaagtcccaa gtccgtctac 240
taatgaagct gcagaggtga aagaatgcac cgagcagaat ttgggttgcg atgatgctcg 300
tttgaggcaa caagggataa ctgagacacc tggatcccat aaatcttctg ttaaacctcg 360
tgttactcgc aaaacaactg ttccaaagcc gttttccctg tcggctgaaa agcctagaag 420
aacagcgggt gataataant cattaggaaa ttggtgctaa ccataactcc tcctcagcat 480
caagagttca cagctaaacc ccct 504

<210> 5655

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-D12

<400> 5655

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tggaataatt gattttatct ttcccggaat ttgaaaatc tgtgagctca taaatcttcg 120
ctaactgcag agacgaatct gcgaaaattc caacaccaga ttccggcgcc ggagcgccga 180
tgaacaatca ggtcgttttag taaaattcga tgaatctccc gcggaaataa ttagattcga 240
tttcgatttc cgtggggaag ttttgtgcca tttgatttgt tttcgttcgt ccccgttgga 300
gattttttgt aatttctggg gacagaaaca atgtctaagg tagtgtacga aggatggatg 360
gttangtatg gaaggaggaa gatcggacga tcgtatatcc atatgaagta atttgtgttg 420
gagcctctcn tttggcgtaa tacaagaaga aacctcag 458

<210> 5656

<211> 453

<212> DNA

<213> Arabidopsis thaliana

<210> 5660
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-010-Q1-E2-E4

 <400> 5660

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 taaactatcc cttttatttt cccacccaac tcaannnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnggggatg ctttctactc 180
 tctgtttggt ttcttcatt gtgactttct attttctggg tttgtttcaa gtcatgattt 240
 ttccgatacc cttttgattt ttcttgctat ttctcacctc tgtataagca agctctctgc 300
 tgtttctcct catccaagtt gggtttatca gttcagctgt gtagaaattc aatcgtctga 360
 gaagtccgag gtttgatgtc tgatggtttt aagatcgaaa ngatttgact ttaacanatt 420
 agtaatngag aataagaatt ggtttttgag ggttaatggt atcana 466

<210> 5661
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-010-Q1-E2-C12

 <400> 5661

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 caccttcaca ttgctcgatt tcagtcctct gaaaaaatct cctgctttg ctatggctct 120
 gaggtgtttt cccatttggg tttgtcccca aacgactcat catcgttctc ctctcatggg 180
 tctcgctgaa ttcgacgtg ataaacgccg tcgtttctgt ctctgggagt gctcttcttc 240
 agcttctcag agagctgtca ctgccattga aggcgagatt ctttttagcc gcgagctcaa 300
 aaagtcctct gatgaattgg gtttgactca ggagactcaa tctctttctt ttcacagaga 360
 cttaagtatg cttcctaaac cgctaactgc aaacagtctt tactcttctg atggcgatga 420
 ttcaaaagtg cgaatttcgt ttcaggggat acaagntg 458

<210> 5664
 <211> 488
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-010-Q1-E2-A3

 <400> 5664

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 acgaacnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnncaatcga actctgtata caactctttc ctcaagtgtt tctccgacaa 180
 gacgaaatct ccacaatccc aaatcactga caatgtcttc tctcagacaa accctgcttt 240
 ctctctcggt ctctgtgctt acatccgcaa tgcgagggtc aacacttctt ctactcttaa 300
 acccaccatc ataatcactc ctctgtccga gagccacgtc agcgccgccc tcacttgctc 360
 aaaaacccta aatttctctc tcaaaatccg aagcggcggg catgactacg atgggtctctc 420
 ttacatttcc gacaaacccat ttttcatect cgacatgtcg aatatccgtg acgtctccgt 480
 agatatcg 488

<210> 5665
 <211> 448
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-010-Q1-E2-A6

 <400> 5665

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 gtttctctcc acccttccga gatttggtgc gatgatgttg cgtgctgttt ttaggagagc 120
 ttccattaga ggctcttctt ctgcttcggg attgggaaaa tcattgcaat cctctcgtgt 180
 tgcagtgtct gctcaatttc attctgtttc agcaacagag acgttggtgc ctcgtggaaa 240
 ccatgctcat agcttccatc accgttcttg tccagggtgt ccagactgtt caaggactat 300
 tatcaacggg taccaaggca cagccctgca aagatgggtc aggccttttc atctgatagt 360
 gggggatgtc gtggaagctg ttgtgccaca catgggtgaa tcaatcactg atggcaccct 420
 agccgccttc tgaagaaacc tggcgata 448

<210> 5666
 <211> 491
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-010-Q1-E2-A7

 <400> 5666

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ctcatctttc tccgttactt gtggatctta cgcaatgtat agagtttttg cgagccgagc  180
actgagagct aagtctctct gtgacaaatc atccacctcg cttgcttctt tgactctctc  240
cagattgaat cattccatac cttttgctac cgtagatgcc gaggagctct ctggtgctca  300
tcctgctgaa gtacagagct ttgtgcaggg aaagtggata ggatcgtcaa atcataacac  360
gcttctagat cctctaaatg gagaaccgtt tatcaaagtt gcgggaagtg gatgaatcag  420
gaactcagcc atttgtggga caagcttata ccaagtgcc gaaaacatgg tctccataaa  480
ccctttcaaa t                                                              491
  
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<210> 5667
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-010-Q1-E2-A8

 <400> 5667

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ttctccggtt tactttcggt taagacagcg ttagcagcac gacatgtgat cggcgggagc  120
caaggctggg aacaatccgt tgattttgat tcttggctct ctgatcaatc tttcaaagtc  180
ggcgaccaa tcgttttttaa gtattcagaa ctacacagcg ttgtggagct aggaagtga  240
acagcataca agagtgtga cctgggaaca tcagttaatt ccttaagctc tggaaacgac  300
gtcgtaagc tttctaaaac cgggtactcg ttacttcgct tgtggaaccg ttgggcattt  360
gcgaacaagg catgaagaat taaagtccaa cgttgccnc ttctgactcc aaaatcggct  420
  
```


tctctccctt aaggttcaag gttcnggggtt ccggtattcaa g

461

<210> 5668

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-B12

<400> 5668

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cagagaaaac acaccattga tccttcttct cctgattttc aaccaattcc atcttttgaa 120

gaatgctttc ctaagagcac taaagaacac aaggaagttg tccatgaaga atctgggtcat 180

gttcttaaag ttccctttcg tcgtgttcat ttgtctgggtg gtgagccagc ttttgataat 240

tatgacacta gtggctctca aaatgttaat gcacacattg ggcttgctaa gctaaggaag 300

gagtggattg atcgctggga gaagctagga acaccaagat aactcaaact gtactacgct 360

aagcaaggga tcataactga ngaaatgctc tactgtgcta ctanggagaa gctagacctg 420

agtttgtaag atnagaantt gcacgaggac gggcgaat 458

<210> 5669

<211> 500

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-B2

<400> 5669

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ccccttcctt tgacttcggt tctaacttga ttaccagtga gaagtaggct aagatggaaa 180

tcatgtcaag agagaatgag actgctttgt caggctctag gccgatggaa tgggtctaccg 240

tcccacacag tgctttctca ggacctgggtc ccaatggcaa gaaccggacc tcgagcttgg 300

aagcacctat catgttgcta agtggacatc cgagtgtgtg ctataccatg aagttcaatc 360

ctgctggaac tctgattgca tctggattcc atgacagaga aatcttcctc cgggagagtt 420

66473014636666

cacggggact gcaaaaactc atggttttga aaagncacaa gaacgccatc ctttgatctc 480
aattggacaa gtgatggctc 500

<210> 5670
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E2-B4

<400> 5670

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aaaacctatt tcaaagtgcg atgatgcgaa gtttcgatct caggaagaag aagatcagtc 120
cagttacgat cagaaaacag tatgcgaagc tctcacatgt tacagcaacg attggcaaaa 180
ggcgttggag tttttcaact gggtcgagag agaatccgga ttcagacata ccaccgagac 240
attcaatcgg gtgatcgata ttctgggtaa gtatttcgag tttgaaattt cttgggcttt 300
gattaaccgc atgatcgga acacggaatc tgtgccgaat cacgtcacgt ttcgtataat 360
ccttaagcgt tatgtgacgg ctcacctcgt tcangaggct attgatgcgt atgataaatt 420
gggtgaattc aatttgagaa gatgaacatc attt 454

<210> 5671
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E2-B5

<400> 5671

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tgcattccct cttcttcggt tagccacaga actaatgatt ccataacctc atcatcttct 120
tcatattcat cattgcttgc tttgcctcaa ttcttctgtc caccatctcc attaggattc 180
ccacagttca agcttcacgc caagttaggt ggaggagatg gagaagtga gacctaaagat 240
aagaagaagt tcattaccaa agatgaagaa ccagaacagt attggcaaag cgttggagaa 300
agagaaggag agaatccgat gaagacgcct cttccttaca ttatcatctt cggtatgtca 360

acgccattcg tcattcttagc cattgctttt gccaatgggt ggatcaaagt tcccattcgt 420
tgatagcctt tcttttttgc ttctgctaca cttgtgtaag gctgatctta aacatgt 477

<210> 5672
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E2-B8

<400> 5672

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agaatattgg aatcttctgg atgcgcgac gctttgattt ttctgctctt catccatgga 120
gctcactcat tctatctccc aggtgttgct cctcaggatt tcgagaaggg tgatgagctg 180
aaggtgaaag tgaataaatt aacttcata aagactcagc ttccatactc gtattactcc 240
cttccttttt gtcgccctag caagattgtg gacagtactg agaatcttgg agaagtgctt 300
cggggtgacc ggattgagaa tgccccatac tcgtttaaaa tgcgggaggc acaaagtgc 360
aatantctcg gccggggtca ctcttgatg ccaagacagc taaagcgttt aaagaaaaga 420
tcgatgataa gtacnggtca acatgattct cg 452

<210> 5673
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E2-B9

<400> 5673

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tcttttctag gtttcataaa aacagtttgg atcttaagct cacagctgaa aataacccga 180
ctttgattac tgggtatata aaagccgcca ttgttggttct tttcactctt tgggttatta 240
gggtttacga tttctgggtg gtagataaat ttgttcttca aaaaagtttc cttttttaa 300
aaatctctta gattctttaa gaattgtaat ttagggtttt aatgcatgg atgggagaga 360

cgaactactc ctccgctgcc tcaanctccc gaaggatgat tatccgcct cctccggcgg 420
caagggtatg cttcataagg tatcaacaac aagctccctt taaa 464

<210> 5676
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-D1

<400> 5676

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aaaacacaca aatctaagag aagttatgaa taaacaagat gttatgaaac ttcagacttg 120
tgttctgaaa gtgaacgtac actgtgaagg gtgtaagcat aaagtgaaga aacaattgca 180
gaaaatcgaa ggtgtttact ctgtaaaagc agatgtagaa caggggagag ttactgttac 240
agggaacatt gaccagctc ttctgggtta gaaacttagc aaatcaggca aacatgccga 300
gatcttnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttc ctaatctgaa 360
tgggcaattt gcaaactca acatgggtgg aaacaataag cctaaagggtg gaaaagagaa 420
taaccaagtc aaaggtaaaa ctggngg 447

<210> 5677
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-D5

<400> 5677

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caagtttcgt catctgggtc ttgtaaagtt ttagactttt aggggttggt tacttgtgaa 180
gtttctctct tttctaattg attctctggg taattgatcg attagggttt aagatttttag 240
cgggtggggaa agctgttttg ttctagaatt ctatcttgat taacgtcact tgcagctttc 300
tcacagggtt tggaattgta ctagggtttg attgataatc atagattggt agtgatttgg 360

gagtttcttg attgtgtaat catggcggag gctattgggtg ctgtatcttt ggtgggtcat 420
cgaccttcaa ntgtg 435

<210> 5678
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-D8

<400> 5678

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ttctgtanaa gaaaaaattt caatctttgt tggattttct gggaaaaact cagatgggtt 120
tgctctgaat cgattggaaa atcaaaccgg tgtggactct gcaaagttgg ttgatatgaa 180
cagtcttggtg agaagaaaac aagttgattc tgttcattct atcaaaaacg atggacctca 240
tcagcttgcc aagaaactat ccgccgttga tcntgttgct attggagttg ggacaanaat 300
tggagcagga gtgtatantc ttgtgggaac ggtagctana gagcacacag gacctgctct 360
tgctgtagca ttctcattg ctggagtanc tgcggctctc tctgcctggt gntatgctg 419

<210> 5679
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-E1

<400> 5679

acgcgtccgc ccacgcgtcc gcggacgcgt gggttcagtg ggagttggtg ggtgatcggt 60
ccgaggcgac atacaagatg accggaaact cttttaactc gatgaaagat ttctgaagc 120
agacaggcgg ctatgcggta atagacggag ggcttgcaac ggagttcgag agacatggag 180
cagatctcaa cgatcctctc tggagcgcca aatgccttgt cacctctcct cacctcattc 240
acaccgtgca tctcgattac cttgaagctg gtgctgatat catctccagc gcttcttattc 300
aggccacgat tcaggggttt gaagcaaagg gattttctag agaagagagc gaatctttgc 360
ttaaaaagag cgtagaaata gcgactgaag ctcggaactc gtattatgac aaatgcggaa 420

ctaactcctc caaggatgaa aaaaatcnc

449

<210> 5680
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-E2

<400> 5680

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atgtcgcgaa tgtcgactgt tcgtataaca tgactcctga ggagctcaac attaagatct 120
cgctctgtga cgccttgatc gtgaggagtg ggactaaggt tggccgtgag gtgttcgaat 180
cgctctcacgg acggctcaag gttgttggtc gcgctggtgt tgggatcgac aacgtggatc 240
tgagtgcagc gacggagttt ggggtgttgg ttgtcaacgc tccgacggcg aacacgatcg 300
ctgccgctga gcacggaatc gctcttatgg ccgccatggc taagaacgta gctcaagctg 360
atgcgtctgt taaggctgga gagtggaaga ggaacaagta tgtangtgtt cacttgtggg 420
aaagaccctt gcagtgttgg g 441

<210> 5681
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-E3

<400> 5681

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agctcgtgca atctctcacc atggttctga ccaacgtgga tctttaccag ctttctctgg 120
actcaaatcc accggttcac gcgcctcagc ttcgtctcgt cgacgtatcg ctcaatccat 180
gacaaaaaac cgatctctcc gtcctcttgt tcgcgctgca gctgttgaga ctgttgagcc 240
aaccactgat tcgtcgattg tggacaaatc ggtcaactcg attaggtttt tggctatcga 300
tgcggtggag aaggccaaat caggtcatcc tgggtcttcc tatgggttgt gctccgatgg 360
ctcacatttt gtatgatgag gtcatgangt ataaccctaa gaaaccctta atgggtnaaa 420

cgtgaacgaa tccntcca

438

<210> 5682
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-E5

<400> 5682

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tccggcttcc tgttgtgggc ggagacgttt cggtacatga ctctgagga cacgaagtgt 120
agtctcaact tgttccatct actgatgaat atgtggcctt aaggaaatat catgtagagg 180
catacttagg tcaaagccct acacaggtgc caaagtattg gcttgtgttt tcagtaactg 240
tgctcctct tggttccact acttacacta tctccactgc taagaaaaca gatggatatt 300
ctagcaaata atacgtctcc aatataccta aaggcgaaca gtcaataatt aacattgggtc 360
atgggcatct gaagcttagt ttttccactg atcaaggac agcaatcaat tatgttaacg 420
gcagaacctc gatgacaaga ancaatc 447

<210> 5683
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-E7

<400> 5683

acgcgtccgc caattttcat cttccctttt aggttggaaat tttgagtttt atcttcccat 60
ttctggattt tgtttctctc tagtctattc cttcaaaacc aagaacccaa ctttgtttta 120
tattcaaaaag ttgtttgctt tcatcgctt ttgtgttcat cttcatctgg tttgagatta 180
taataacatg gaaggaatca ttgtgagaag agttatacca tctgataaca gttgtctctt 240
caatgcaatc ggttatgtca tggacaagga caaaaacaaa gctcctgagc tcagacaggt 300
gatagcagca gcagttgcaa gcaacaagga gaaatataat gaagcatttc tagggaagct 360
caatgaagaa tatttgtgctt ggattctcaa tccagacaag tggggangtg cgattgagct 420

ttcgatatta acanattaat aagg

444

<210> 5684

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E1-F1

<400> 5684

acgcgtccgc acacagctgc aacactatct tctcagaaat ggtaaccgaa gctttcgaat 60

tcgtcgccgt tcctttcaat tccgatggct ggggacctcc agacgcttcc gacgtttcct 120

cctccgcctc tcccaccagc gtcgcccgcg ctaatcttct cccgaacggt cctttcgctt 180

ccttctcccg ttccgataag ctcgcccggt tagctgattg gactcgcaat ctctctaate 240

catccgctcg tcctaacacc ggatccaaat cagatccgtc tgcagttttc gatttctccg 300

ctttcgcaat cgacgaaggc ttcgggtctcg cttcctccgg tggtaatccc gacgaagacg 360

cagctttccg tctcgtcgac ggtaaaccctc cgccgcgtcc taaattcgga cctaaatggc 420

gtttcaatcc tcaacaaaat cgggat 446

<210> 5685

<211> 443

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E1-F3

<400> 5685

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tcacggcgaa gcttcagatc tacttttccc cagctcagta tggagacggt tgattctcgg 120

aacaaattgc attcccggtt acgtttatgg gaattccccg atcagtacat catcgagcca 180

gctgatggct caggctcttc atgtttggat attagtcgtg ttgatgcttc catgaagctc 240

atcgatcaag tcccagaaag caattccgtg cgtgtcccta aaatccgttc catttttggt 300

gtggttgga tggtgaagct ccttgcagga tcatacttgg tggttgtaac tgagagtga 360

cgtgttggt cgtttctggg gcatactata ttcaaaagtt acaacgcta agggctctcc 420

443

acgcgtccgc	ggacgcgtgg	gctttactga	gaaagaaaca	aaccgctcca	aagtcattgc	60
ccattttctct	caatgtggat	cagtcgggtct	ccgatcctac	tgctgttcca	acaacaagaa	120
aatcgttgat	catggaacga	atgggagata	aagacatcgt	tagacgtgca	tttaagagtt	180
ttcagaagag	tttcgaccaa	atgaaatcta	ctgatgatgg	gcaagataca	gctccaaagc	240
aggttcttgc	aaaggcaact	gctgttcaga	ggttaggtac	aactggtcag	aaaaatgtca	300
ggcttgcaaa	atcagatggc	acggagagaa	aaggtcctaa	ctctcacctg	tcttcactctg	360
ttgtatcaaa	aagcaacggg	acagccgaga	aacagaangn	accttcctaa	gctttggaca	420

agaacttttg agaaggatac nat

443

<210> 5688
<211> 439
<212> DNA
<213> Arabidopsis thaliana
...
<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-H4

<400> 5688

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ctccagatcg agagcttaaa aagtcgattt caattcccct ttaagatttt ttgcttttgg 120
aatgtagtgt gaagaagaaa ccctagtttt ttctcacttg aattctctgc cttcttttagt 180
aatgtcaagt gagcagcgag aagggttcgca agagacgacg acgacgacgg tggaaggtaa 240
cggaacaatt gcaggtcaga attctcattc ggcggtcccc acgacattga gagctacctc 300
tacgatgggt tcttgccaga gactaaggct aaaccctaac aacgagcata gacccgatag 360
ttatgaagat ctgcagcttg atttcccaaa ctcggtatat tctagtctgg agaaagtact 420
tgccctcgaa tatgntcgt 439

<210> 5689
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-H8

<400> 5689

acgcgtccgg aagagagagg ctctgataaa anaaaaaaca aaanaaaatg acaaaggctt 60
attcaacacg tgtcctcacg tttctgatat tgatctcgct aatggcggtg aactgaacc 120
tttttccac ggtagaggca aagaagcggg gtagagatgc tcctanantg aaaggctctt 180
catggaactt ttaccagaaa gcatgtccga aagtcgaaaa catcatcaga aaagagctca 240
agaaagtctt cangcgagat attggttttag ccgctgccat ccttcgtata catttccatg 300
attgcttcgt tcanggatgt gaagcatcag tgctgctagc tggatcagcc agtggaccan 360
ggagaacaat catcaatccc aaatctgaca ctacgacaac aagcctttgt cgtcattaan 420

667733-1166666666

aaccttcg

428

<210> 5690
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-010-Q1-E1-C7

<400> 5690

acgcgtccgg cccaatgttg acgaaaaagc aattctctga catgattcaa cccattgaag 60
aaaggatgcy taatgtggag acctatgtca agtctatcaa gcccgagctg gttgtacaag 120
ccgaacccat tacagatcca tatggccctt ctatcgtaga tgaaaatttg gaagctattg 180
ttgtcagcaa agagacatta cctgggtggct tgtcagttaa cagaaaaaga gcagaaagag 240
gtctttcaca gcttaagatt gaagttgtgg aaatagtttc tgatggatcg agtggaaata 300
agataagttc aagtactctg agaaaaatgg aggctgagaa agcgtctaaa caaaaacaac 360
cagcagaaga aaaagcatca tgaactcatc atatataaac tctcaacttt gcatgtaatt 420
taataccctt tgtnaaccas aaaggccg 448

<210> 5691
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-008-Q1-E1-H11

<400> 5691

acgcgtccgc ggacgcgtgg gctttttccaa gttttttnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnc tttggttcg gatcttgatt atggcaaag ggtgggtcaa 120
atcgttacaa tgcaagtcga aagctttcga tgatgtttac nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnatct catgtcaagc tacagttgca gaaaaagcac 240
acagagtcta aaagatgtga tcgaaaccaa aaaacccaaa cctaaaccga agaaacccaa 300
tccaaaaccg gataaacgag aaaccgaccc ggttttatca ccatcaaccc ggatccgatc 360
aaccggagtt cgtgatcgtg atccgttttt accgacattg acggagctat cggaaggncs 420

60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080 1140 1200 1260 1320 1380 1440 1500 1560 1620 1680 1740 1800 1860 1920 1980 2040 2100 2160 2220 2280 2340 2400 2460 2520 2580 2640 2700 2760 2820 2880 2940 3000 3060 3120 3180 3240 3300 3360 3420 3480 3540 3600 3660 3720 3780 3840 3900 3960 4020 4080 4140 4200 4260 4320 4380 4440 4500 4560 4620 4680 4740 4800 4860 4920 4980 5040 5100 5160 5220 5280 5340 5400 5460 5520 5580 5640 5700 5760 5820 5880 5940 6000 6060 6120 6180 6240 6300 6360 6420 6480 6540 6600 6660 6720 6780 6840 6900 6960 7020 7080 7140 7200 7260 7320 7380 7440 7500 7560 7620 7680 7740 7800 7860 7920 7980 8040 8100 8160 8220 8280 8340 8400 8460 8520 8580 8640 8700 8760 8820 8880 8940 9000 9060 9120 9180 9240 9300 9360 9420 9480 9540 9600 9660 9720 9780 9840 9900 9960 10000

agaagaaaca cgaagganta aga

443

<210> 5694

<211> 497

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-H8

<400> 5694

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aagaagatct ctcatccccc ttcaaaagca gacagattcg aaactttccc ccaaattcgt 120
ggaaattttg tgtaggggtt tgggttattc tcaaatagaa tcaatcagat cgtttttttt 180
tttgtagaa gaagatgaag atagcggcca atggccggtt tttcacaatc ggactcgtag 240
cgtcatggta ttcacgaac atcggagttt tattgctgaa caagtacttg ttaagcaact 300
atggattcaa gtatccgac ttctcacca tgtgtcacia tgacgggctt gttctctct 360
caactacgtt gcctattggc ttgggatgaa gaaggntccc gaatgcaaaa cgattccgat 420
tcccaagttc antttcctta aagaatncgc ctgcngttaa ngccccgtt ttcccgggtg 480
tgtcccgtg gggtttt 497

<210> 5695

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-H9

<400> 5695

acgcgtccgc ccacgcgtcc gcggacgcgt gggcatgaag aagttggctc caattcagcg 60
caaggagctg gatccctgt catgattgat gctatgtcac acatcacaag ttgcttcagc 120
tctgacacta aggtgctcaa aaaagcgatt cagaaaagtt tgcttgctc tgctgacatg 180
gcacatgctt tacatccaaa ctttatggac aaacacgaag agaatcatca gccaaagatg 240
cacggaggac ttgtcatcaa acacaatgca aatcaacgtt acgccactaa tgccgtaact 300
tcctttgtat tcagagagat agcagagaag cataatctgc ctgttcagga ttttgtggtg 360

cgtaatgata tgggttgctg atcgaccatt ggtccaatcc taacaagcaa tgtgggggat 420
aangacggtt gatgttg 437

<210> 5696
<211> 415
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-009-Q1-E1-B2

<400> 5696
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cttctcccg attccctctt cctcggttc gacagctcta cccagtcaat gaaagcaact 120
gtgttggtt cgaacctgaa cattatcana ancgaaactn ttcatttcga ttctgatctt 180
cctcaanaca gnaccaaaga cgggggtttan agatacacta gtgtagacng aagaatcgta 240
tctccaactc tcatgtgggt cgaagcattt gatctcattc tccaaaatct ctctaangnc 300
aatttcaatt tcnncaaagt tatcgctgtt tcaagnacag ggcaataaca cggtagtgtg 360
tactggtcag angaatttat ggggaattga gatnatggag gcattgagat gnctg 415

<210> 5697
<211> 425
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-009-Q1-E1-B4

<400> 5697
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aatgtgatta tccattcgat tttttcgcag aagaagacga aagagagaag aagagaaaaga 120
gatttgaaat catggcgaat gtagtgggac agctaaaacg aggaatctcg agacaattct 180
caactggatc gcttcgtcgt acgcttagtc gtcaattcac gcgtcaagct tcacatgatc 240
ctcgccgga caatatgcga ttttagttttg gtcgacaatc gtcttttagat ccgattcgtc 300
ggagtccga tggttctaac ggtccgcgac ttgctgtacc ggataatctc gacgctacta 360
tgcagcttct atttgtggct tgtagaggtg atgttgaagg tgttcaagga tcgcntgatg 420

664733-11000000

aaggt

425

<210> 5698
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-009-Q1-E1-B5

<400> 5698

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atcattgcag ttctatacgc cgtagcagaa caggaaggag cttcgaaaga agacattgac 180
caacttacta aattcaaatt ccgaaagggt ggtgatacta tgaaacacac tgttgatgaa 240
gaacaaggac aaggagattc tggaggagtg atgactgaat gtggtacaga ttcacccgtt 300
gaacatgctc ttctcatga ggatgcagaa tgctgcattt gtctttccgc ttatgaagac 360
gagacagagc taagagaact tccttgtggn caccatttcc attgcgttgt gtggataaat 420
ggctttacat aaatg 435

<210> 5699
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-009-Q1-E1-C1

<400> 5699

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ttgtacgtcg gatccaaaaa acgcgcgtta tataaacgct taatttctcc aggattcttc 120
ttctgcttcc gccattgctc gaaaatcgcg tcttctgaca atgtgctgaa actgagtcac 180
cgtccgagtt agcaaagtga aacttcgaag tttctcttac actaatctca ggtttgggat 240
tttgtaagaa accgcgttta caaaatgttc aagttgaagc aatggttgat ttatttggtg 300
tgttcgtaa gtaataatga acacagaang actgtttgtc aatattacat ttgttcgnaa 360
nncactcgct aaanggggcc gtttgtttan atgganatcc accagcttat catttggn 419

66730-12366666

<210> 5700
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-009-Q1-E1-D2
 <400> 5700

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 accaaaaagt gtaccttttg ctattcatag cgtaaccagg aggcaatttc ttaatcccaa 180
 cacgttttat agatttgggt tctctcttct tcttcagga agtagcattg agtttagcct 240
 tcagttgaat tcaagagttg tgcttagtaa agagcgtcga tctctgccat tagttgtgag 300
 aatgatcgt cctcagaatg aagacttacc taagcagtag acaaggcgag agaagaaacc 360
 tttcccagtc cctattgtgg acctgagacg agctgcgaag gaaagagtca agaacaacag 420
 agacaaacct aaagagac 438

<210> 5701
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-009-Q1-E1-D8
 <400> 5701

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 gtaagttttt tttttatttt ccggtgagtt gtgaaggaat aataacacac gcttcttctc 180
 tccagttctc gaaaactcag atcttaattt tgtaaagat tcatgggttg ttcttgtaac 240
 gatttttttc ttttcttttt tggtcagtg gagaatcttg aaacgccgga cgcggcggag 300
 ctaatagcgg cgatggcggc gggatggaac gtgaagctga tcgtggaaac ttggtcagaa 360
 ggagacgcaa tagcttcaag tattgggtta aacgtancaa gcanacacgc aaacgctaaa 420
 cacatatgta tantacaa 438

<210> 5702
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-009-Q1-E1-E2
 <400> 5702

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 catctttcgc cggaggtgca ggcactggat tattactcat tctcgtggt tatatcagtc 180
 tcaaagcttt tgagaagaag aagaattcca ctattgctat ggttcttcag acagtcatcg 240
 cagctgctct cacactagtc atgggacagc gttacttgc t gactggaaag attatgccgg 300
 ctggtttggg tgctgggatac agtgcctctca tgacctgttt ttacgtatac aagatcgcta 360
 ctgggtggcaa taaatttcca gcaaaagctg aatgatgggt ctgctacatg cagatgatac 420
 tatccgttgt tgaatttg 438

<210> 5703
 <211> 436
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-009-Q1-E1-E7
 <400> 5703

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 gtcactcagc agagaactcg tgtttttaat acttcagttt ctcgatgaag agaaattcaa 180
 agatactgtt cacaggttgg agaaagagtc tggttttttc ttcaacatga ggtactttga 240
 agatagtgtg acagctgggtg aatgggatga tgtagagaag tatcnttctg gattcactag 300
 agttgatgat aatagatact ctatgaaaag attttttcgag attcggaatc agaagtaccc 360
 tgaagcactt gacaagaaag atcattcnaa ngcggttgan attcngngtt aaggatttga 420
 cagtgtcncg acatca 436

<210> 5704

<211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-009-Q1-E1-E8

<400> 5704

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 agatggcgag gaataaactt gtaagtggta gtcatgggat atggaaatat ttcaaccag 120
 cgttttatct ccgaagacca agacgtcttg ctttgctcat catcctcttc gtctctgttt 180
 caatggttgt ttgggatcgt caatctcttt cccgagacta ccagtttgaa gtttccaagt 240
 taaatgaaga agttttgcgg ttgcagcaga tggtggaaga gataaagagc gtcactgagg 300
 atgtgtctgt caatagtttg aaggatgttc aggaagatcc agttgatgct cagcgaatgc 360
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 aaagatgagc ntc 433

<210> 5705
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-H1

<400> 5705

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 gtactatgaa tactcccacg cggttcagga caatcgaggc gtataacatt gctgatggga 120
 aatgggctca gctaccggat ccaggagata acttcagaaa aagaggagga gcgggattcg 180
 ctgtggtaca aggaagatt tgggtggttt atgggtttgc gacctcgatt gtgcccgag 240
 gcaaagatga ctatgagtct aatgctgtgc aattctatga tccggcttcc aaaaagtga 300
 ccgaagtaga gactacagga gcgaaacctt ccgcaaggag cgtgtttgcc catgcggtag 360
 tgggaaagta tataataata tttgcaggtg aggtatggcc tgatctcaat gggcattatg 420
 gtcccgggac gctgtccaat ganggatatg 450

<210> 5706

<211> 431
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-D7
 <400> 5708

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 ccacgtttct cgtttgtagc ttctttctctc tcagaattca attcgaattt tgacaagtct 180
 tgacgaagaa gaagaaacag agctgcttca atgggtttcta actcattact acgtttcttct 240
 tcaaatttct tcttaggata ccatatcata atctcatctc ccaccctaa aaccaccaga 300
 aaaccctctt tccctttctc ctctgtctcc cgtgctaaat accaaatcac tcgatcgtct 360
 caagacgaaa attcgncaaa tggtaaacc c anttcgccat tctcgtcgna ngtagcctta 420
 ggcagccnat t 431

<210> 5709
 <211> 439
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-008-Q1-E1-D9
 <400> 5709

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 cgctttgtct ttcttaatcg actgataagt ctttaggata agatggaaca aatgggtggc 180
 tactcaaaac aacaagggtcc attttttagtt tgattaaggg atttggatct gagcttactt 240
 catcaacttt gtcggaatat acatttgctt tgtgtggatt tggaagttgt ccctgaatgg 300
 cgcccgagga tttgaatatt gttgcggaat caaagaaagg ggaagagaat gttattgttg 360
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 ctggcaatga gaatgggcc 439

<210> 5710
 <211> 439

<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-E11

<400> 5710

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 agttatgtac aaggatcgga gtggaggagg aataatgggt ggtggtggat catcgagatc 180
 ggagatcctt ggtggagcta ttgatcggaa acgaannnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnntaaat ctcagcttca ttctcggtcc cccgatgttg aatctgacac 360
 ggatagtga ggaatcaagat gtgagtgggt cagaaggatga tgataacctc tggatctcat 420
 gggtttgtaa tttganaag 439

<210> 5711
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-E2

<400> 5711

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 ggaatcaata gagtcaattg gcgggagagg ttagtctcga aaagaagtgg aagccctagg 180
 gggaaacttt ctcgctcact cgctcgctcg caaacaccat ggaagacagt cctcaaggcc 240
 ttaaaaggag tagagatccg gatcaggatc aggatgacga cagcggcgag gctggcaagg 300
 ccgacggaag cggcggagag aatcaggagc gcagcagcga ccagattgag ctcgatgacg 360
 acgatttcca ggaaaccgt cccaagccca agcgtagtcg caccatcct cctcaacaga 420
 atctcattga ggttgtaaaa ggcaacgggg atcttatttc taaagccgta aan 473

<210> 5712
 <211> 443

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-E4

 <400> 5712

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnctcg aatcgctcct 120
 ggtgttgag ctaatcttct cggccaacac tccgctgaga ggaaccaaga cgccactgtt 180
 tacgtcgggtg gtctcgatgc tcagctttct gaagaattgc tttgggaatt gttcgttcaa 240
 gctggacctg ttgttaatgt ctatgtaccg aaagatagag tgacaaatct tcatcaagaa 300
 ctatggattc attgaatata gtagtgagga agatgctgat tatgcgatta aggttcttaa 360
 catgattaan ctccacgggg aagnctattc tgtttaacaa ngnatctcaa ggatangaag 420
 agcctggatg ttggtgctaa cct 443

<210> 5713
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-E9

 <400> 5713

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 gacaggaaga tacttacgaa agagtcgca ttagtaatta cgcgaatctc acgacgatgg 180
 agtcgttaca ggcgaggaat ccttttccgg cgactaacat acctctctct gcgacgtta 240
 atgtattggg gaattgttct tgtgggtgatg agagtgttgc gaaagatttt ggtttgtttg 300
 ttacgtatcc gcttcgtcct gaagacagtc tcagttctat tgcganatct ccggtgtatc 360
 ggcggnatt ctgcatnnat atnaaccngg gtgttncttt aactccgggg a 411

<210> 5714
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-F12

<400> 5714

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ttctgtctct gtgttcatca gagtaccaat tcgctcgatt gttgctgcat ttcgcgaatt 180
gtattagggt tatagcgtct atgaactcct gttttcgctc gatttgagta acctagggtat 240
ttctctacgt tgattgtttg gatttgaaga aaaggcgcaa agtatgagta gaaatttcgg 300
aagtttcatg aagatttgag ggattgagtt aggtattgta gttgtagaga gaatgcagag 360
tttatcgagc tcggctccga caccggaggc gatattagaa tggttacaga aggaaatggg 420
gtacaa 426
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<210> 5715
 <211> 436
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-008-Q1-E1-F5

<400> 5715

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gccgacgcta atggcagatc taagtacatg gagattctcc aagaggtttc aaatcgtaag 120
attcgagcta ttcaagtcca tctcgatgac ttattcaatt ataaagatga aagtgaggag 180
tttctcggac ggttgacgga aaacactcgc cgatatgttt caattttctc cgccgctggt 240
gacgagttgt taccgaacc aacggaagcg tttccagatg atgatcatga tattctcatg 300
actcagagag cagatgatgg gactgataat ccagatgttt ctgatcctca tcagcaagat 360
tccttctgag attaaaagat attatgaggt ttatttttaa gtccttcaa agggaagggc 420
atctaccatc agggaa 436
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<210> 5716
 <211> 431
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-G1

<400> 5718

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 atccagttca tactgtccat catctctctg gcaattccac tccaacttct gatgtccgta 180
 ccctcttatac tgcttcttcc atcgggctgt gtcagtggaa cattagtggg agcgagggaa 240
 gcccatcatt agtttcggaa acgggaaacc cagggtgatg catatcctcc tcgtactgtc 300
 cccgcagcaa tcatatagta gcttcttata gaccaagagt tggatcatct gatgatacag 360
 tcccgaactca gccctcattg actcaaacag gagtcagtaa tagtaatagt aatgggtgtan 420
 atgggatttc atgtttg 437

<210> 5719
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-008-Q1-E1-G12

<400> 5719

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 ctagctttga gaaagattca atttttgagc cttaagattg tgatgggagt tgtgtctatt 120
 tcaagttcag ctgcaagatc tccactcggg ttgggcaacg atcttttgac acatcgggtc 180
 tcacttaaaa agccatccat tgttgctttt aaagccgatg attccagcaa ttcagctttg 240
 atcattcctc ctgctgagca agttttgatt cctgctgaaa agcataatga gaagaagaga 300
 gaagtaacga ggagaaagcc ttgtaaaacc ccgaaaaaac cgctttcctt ggaacataat 360
 tcggctcctt cgtgttcggt aggagtagat tacaatgaag ctgctgcaag acttgaaagc 420
 atatacaa 428

<210> 5720
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-D12

<400> 5720

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ttttccggta tccgatttga gattctcgaa gcaattacca gtttcctcaa caacaacatc 180
actccatctc tccccctccg tggfacaatc accgcctccg gagatctcgt tcctctctcc 240
tacatcgccg gacttctcac cggtcgtccc aattccaaag ctactggtcc caacggtgaa 300
gctttaacag cagaggaagc tttcaaatta gcaggaatca gtcccggatt ctttgatctc 360
caagcctaag gaaggtctcg cgctagtcaa tggcacggcg gttggatntg ggaatgggggt 420
caaatggtgt tan 433
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<210> 5721

<211> 454

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-H7

<400> 5721

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tcctccgccg ccgggagttt ctccgattcc aattacttca gtcattccg tctatttgcc 120
tacctatgtc tcaattggag ctgcgatga ggtaggacg cttttcgtcg ccggacttcc 180
tgaagatgtc aagcctcggg agatctacaa tctctttcgt gagttcccag gatatgagac 240
ttcgcatctc cggagctcag atggagctaa gcccttcgca ttgctgtgt tctcggatct 300
gcantcangc tgtancngtg atgcatgtc tcaatggaat ggtgtntgat cttgaanagg 360
aattctantc ntcaaaattg gaccttgcca aaagcaaatt ccnaantct aaancggtca 420
annaacaaaa tnaatgggtt tgggaaaanc tttta 454
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<210> 5722

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

664730 "The Sequences"

<400> 5724

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ggaatgagtt tccgtgaatc atccaccag gtgaaaggaa tcataatttg gttgggtcaac 180
taataataaa aatgggtgag gcaagtgatt cagattcgct tgatgagtct ttgaaacaca 240
atagcacccc accactcttt agcatctctg gcttcntttg tgttgccaaa ggaagagact 300
ctgatcccg taggagccct acttctcccc ttgattttgg agtctttggg ggcctcttta 360
nccccangtc ntentcttcn tcaaccctcc aacggaaaca aatggtttct canaaaagtc 420
gg 422

<210> 5725

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-A11

<400> 5725

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agcttggttt gatgttggtg acatcaatga agatggacct gatgatatgg aaggattgga 120
tgtggctgct gcacatgttg caaatctgtt gtcgaatgag cctgctgaca ttaaattagg 180
tgttgaggga ttcagcatgg gtgcgggcag atctctatat tctgcaactt gttttgctct 240
cggtaaatat ggaaatggca atccataccc tatcaattta agcgcaatca taggcttaag 300
cggctggctt ccttggtgcaa agacattggc tggcaaacta gaagaggaac angatnaaga 360
ancgagctgc atcgttgccc attgttgtct gtcatggaaa agctgatgat gttgggtaccg 420
ttcaagtttg gggagaaatc ttcacaggcn ttgctttc 458

<210> 5726

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-B2

<400> 5726

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tgttgtcagg acgcggtgtg agcgccccgt tcagagatcc cgagatcctc ctacagcaaaa 180

ccctagtgtg atctccaggc tcgtttacaa acccgccagc gtaattgctt ccggcgccgg 240

aaaattcatt tcttccgtcg tcttctccga ctcttctca tcttcggagg aggacgagga 300

ttcatcttca gatattgatg gtgatgagga tgttgagaag aacaatcccg attttactga 360

agaggacttc tgagtgccca agcaaccaag cattcaacga ctcanttcta agcgtgtaat 420

tgagcanttc tcttgcaag 439

<210> 5727

<211> 431

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-C10

<400> 5727

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gatccagttt gattttgtct ctttgtgttc taactcttag agggctcaat tccttgaacc 240

tcctttgttt aaagggctca atttgttttt caagcttctc gatttcaatt atataaggaa 300

caaattagag ttgtggattg gggttttctc taatgccttt gagttgggtt ttatgcaatt 360

gaagtcaatt gtcattattg gtttttggaa acgagtgttt ttattttact ttttaagtgtt 420

catggaagtt t 431

<210> 5728

<211> 440

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-008-Q1-E1-C11

<400> 5728

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 tgaattcgcg tgagctcaag cagtatcgaa atctaccaat catggcgagt caaacaccga 180
 atctcgagtg tcggatgtac gaggcgaaat acccagaggt ggatatggcg gtgatgatcc 240
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 aaggcatgat ccttttctcc gagctctctc gtcgtcggat ccgaagtgtt agcagtttga 360
 ttaaggtcgg aagaattgag cctgtcatgg ttctccgtgt tgacaaagag aaaggttaca 420
 ttgatctgag caaacgtaga 440

<210> 5729
 <211> 442
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-C2

<400> 5729

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 cacatcaaac aatctactgc tgctgtact acaaattcaa gaaaaattgt gaatgagata 180
 aatgaattac ctggaaatgg agattgtggg gatgctactt ctaaatctct tccaatccca 240
 gaaagagaaa ctcttcaaaa tcctcttgta gaagcaatac aaaaagaaac tgagttgggt 300
 gtgaaaactg tcgaagatgt gggaacaaat aatatggaaa ctgatactct agtgagccac 360
 ccggaaaatc atttggtggc caacagtgag ttgacatcta ctccagttac tgagaagaag 420
 aaaaggcaaa agaaagantc aa 442

<210> 5730
 <211> 463
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-008-Q1-E1-C3

<400> 5730

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gttgatcgga agcttatgga gaaaggtggt caacggatgg atcgatcatcc ttccgatggg 240
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cctgatcgga tggaggatta ccagatgcag cnggatccan cggcgatnga tgaaggacat 360
cntaattacg acgacgaaca ggtgaaagaa gantgggtga tgacctnnng gttgaacctt 420
gttaaacgag aagg 434

<210> 5735
<211> 406
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-007-Q1-E1-H5
<400> 5735

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gaggaatacgt tgttgggggtg ttaatgcatg ggaagaaggt tagagatgaa aggaaaaactc 180
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cagatgacgt gattgattca agaaatattg tgnncaataa cctcca 406

<210> 5736
<211> 473
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-D4
<400> 5736

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aaagacaagc atcatgatga gcaagagaaa ggatttcatg gttttccagg aggtggacat 180
 taccacactg ctcaaggagg ttaccctcct caagggttacc caccacaaca aggggtatcct 240
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 gggtatcctc ctgcacctgg aggttaccct cctgctgggt atcctgcacc tggagctcac 360
 cattcangac attctgggtg tggactccng atgcatgata ncagggtgcaa ctggtttanc 420
 cgcaagcaag ctttatggag ctcanatgt tnggcaagnc tcttaaaaaac cct 473

<210> 5737
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-D6
 <400> 5737

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 gggccaacac cgtttgtgtc tcctctagga tgattacttg ttgatgatct gtttcttcga 180
 cggacacaga aactcactgt tattggtaac actatgagaa tgagcataag caatatagac 240
 cctccaactg cagcaagtat aactattttc gtgtggctta accaggaagt tttagaactc 300
 ttcttctctt catgttgtcc gaaattgttg aaagttaagc ccttttttga ataaaacaaa 360
 gtgcaatccg acaacttccg ctgcttctct gggcctgaa gacaattgtt gctcaatgaa 420
 gctctggttg gcacaaa 437

<210> 5738
 <211> 470
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-E1
 <400> 5738

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taccgattct tttggattac tggccaagta tggtcgggat gagggctaga gttgcgttgc 180
gagagaaagg tggtgagttt gaatacagag aggaagattt ctcgaacaag agccctttac 240
tcctccagag taatcccatt cacaagaaaa tcccggttct ggtccacaac ggtaaaccgg 300
tatgtgaatc tcttaacgtt gtccagtacg tcgacgaagc ttggcccagag aagaanccgt 360
tcttccttc cgattcttac nggaaaactc aaggctcgaa tctgggctga attcntggac 420
aaagaaantt caccgaagcc caaatcaaag gattgggggg naaaaaaggg 470

<210> 5739
<211> 443
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-E2
<400> 5739

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cccacccatt gttgctgcga taattttcat agtcagaaa ggaggtcctt atcttgccat 180
ctatctgtgg gcattcatgt ttatctgtc tctagtgatg atgactatat acccggctct 240
gatagcaccg ctcttcaaca agttcactcc tcttcagat ggagacctcc gggagaagat 300
tgagaaactt gcttcttctc taaagtttcc tttgaagaag ctgtttgttg tcgatggatc 360
tacaaggta agccatagca atgcttacat gtatggtttc cttaagaacn aaaggattgt 420
tccttaagat acgttgantc agc 443

<210> 5740
<211> 445
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-E3
<400> 5740

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tctcttcgtt aagaagaatt tgatactatt cttctcgatt tagaaatttc aggggtttgt 120

tcttgtttca ggttttggga agagaatctg tgcgacaaga gactgtgact ggtgggttgct 180
 ggaacgagaa aacctccaag actggtggta atgttgatag aaacagggaa caacaggaga 240
 atcatgggtc aggttatcag caggatcaga gagtacaacc ctgtcatctg agttcttcca 300
 tctattacgg tggtcctgat gtttatttcc agcctcaaaa ttccaccagc aactctacga 360
 acaaagaaag atggaggcga aagatgantic cgggaagtgc ctcaaagaag gaaattgggtg 420
 gcaanggtcc cctgtattaa cnaag 445

<210> 5741
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 5741

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 ctcgtcacca tccaaacctt ggatggtgac atgtccaccg atcaatcctc caccgtcgta 180
 cttccccgacg tcatgacggc gccagttcga ccagacatcg ttaacttcgt tcacgcccaa 240
 atctccaaca acagccgtca gccatacgcc gtatcgaaga aggccgggtca ccagacctcc 300
 gccgagtcct ggggaaccgg acgtgccgtg tctcgatatcc ctcggtgtcc cgggtgggtg 360
 actcaccgtg ctggtcaagc tgcgttcggt aacatgtgtc gtgggtggtcg tatgttcgct 420
 ccaaccaaga tctggcgccg ctggcacctg cg 452

<210> 5742
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-E6
 <400> 5742

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gagcctccgg ttacatcgcc tcatggctcg tcaagttcct acttagccgt ggctacactg 180
 ttaaggcctc cgtccgtgat ccagtgatc cgaaaaagac acaacactta gtttcactag 240
 aaggtgcaaa ggaaagactt cacttggtca aagcagaccc tttggaacaa gggtctttcg 300
 actctgctat tgatgggtgc catggagttt tccacactgc ttctccattt tttaatgatg 360
 ccaaagaccc acaggttgaa cttattgatc ctgcggtcaa ngggacgctt aacgttttga 420
 attcgtgcgc caaaacctcc tccggtaaaa aggggttggtg ttaacctccc ccangg 476

<210> 5743
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-F11
 <400> 5743

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 agatttaaga gaaaccttat cgttatatc tctcttctct tttctttttg actcccacaa 180
 gaagaaagca aattttctttt tctcaggatt gcttgaaaac tgtagaaatc ttttaagggtt 240
 ttttacacca atannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntc tattcataaa 300
 aaagacaggt aatctcaact ccgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tgggtgcttt tttaacanct tgggcctggg 420
 aaaactttgn aatcccca 438

<210> 5744
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-F12
 <400> 5744

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 agataaatct ctccccgatt ctctcttttt ctgcctagat actctttttc ttcanttagg 120

CCDS: 1000000000

gttttttttc gcttgccctt taattctctc cagctgatct gatctccgtt accgatggag 180
tctactgcta acgcactcgt cgtcaangtg agctatggag gtgtgcttag gcgtttcagg 240
gtgcctgtta aagctaattg acagcttgat cttgaaatgg ctggtcttaa ggaaaagatc 300
gctgctctct ttaacctctc tgcggatgct gaattgagtc tgacttactc tgatgaggat 360
ggggatgtgg ttgcccttgt tgatgacaac gatctctttg atgttactaa tcagcgtctt 420
aagttctaaa gatnaatgtg aacgctgggg tgtccactaa ctccg 465

<210> 5745
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-F2

<400> 5745

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ttgtggagtt gggatcaaga gtgggtggatg aacgagatga tctactacagg aacttccgta 180
acgaagaaag aaaggttgtt tatttgata acaaagtca agtactgaga aaggattatc 240
tatatgatgg tgttgacagt aagaagaatc ttgatctcag tgaaccatat gctgtagtag 300
atcgagatga taaagcttca cagagcataa cacgttgctt aaataaagaa agggaagcat 360
atttgataa tgagagaatg ctgttttttc agatgataaa agacaggaac tgnnaaacga 420
gtatcacctt ggcaatgatg gtangataca ttcctg 456

<210> 5746
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-F9

<400> 5746

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnga cttttgaagt tttgatctga agaaaagagg tttcgttgta attggtttat 240
 acatcatgtc tgggctgagt atgtataaga cgaagctttg tattctgttc aataagactg 300
 gtgattgttc gaggccgaat tgtacttttg ctcatggaaa tgctgagctt cgtcgtcctg 360
 gcgaatcttc ctttacagga agactcacia tatgggatag tgacttaaga gatagacgtc 420
 acaatatgnt a 431

<210> 5747
 <211> 482
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-G1
 <400> 5747

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 ggntacgaca aagtatccga ccaagaaaac caaatccatc atcatcatca ttctccactt 120
 ncaaaaccat catcattttc ccgtaaaacc ctaatcgcca ccggntccgt cgtatctctc 180
 ctcttaatcc tctccgtcgt cgctttaacc gccggagctt tcaactcactc tctccacac 240
 catccaccta tctcctccgc ctctctcaag tcaactatgtt ccgtgactcg ttaccagag 300
 acctgtttca actctctatc atcttctctc aacgaatctg attcaaagct taaccctgaa 360
 tcaatcctcg agctttctct tcgagtcgct gctaaagaga tctcaaactc ctctatctct 420
 ttccggtnaa tcaacgatat gcctgaagga ccngcgggtg gtgantgggtg tgaaaccttt 480
 ca 482

<210> 5748
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-G3
 <400> 5748

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66733" 123456789

gcgattcgtc gtcttgctcg tagaggaggt gtgaagagaa tcagtggatt gatctatgaa 240
gaaacgagag gtgtgttgaa gatttttctg gagaatgtga ttagagatgc tgttacttac 300
actgagcatg cgaggaggaa gacggtgact gctatggatg ttgtttatgc cttgaagaga 360
caaggaagaa ctctatatgg atttggtggt tgatcaattg agatctgggt ttccggtgaa 420
tgatgatgat tttaatcctg catttnaaa 449

<210> 5755
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-B3

<400> 5755
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cgggaaaccg atacaaccgt tgacaatatg catgatcggc gccggagggt tcatcggttc 120
acatctctgt gaaaagctct tgaccgagac gccacataag gtgcttgccg tcgatgttta 180
caacgataag atcaaact tgccttgagcc tgataccgtt gaatggagtg gtcggatcca 240
gtttcatcgt atcaatatta agcatgattc gagacttgaa ggtcttgta agatggcgga 300
tctgattata aatcttgctg cgatctgtac tccaagctga ttacaataca cgtcctcttg 360
atactatcta cagcaatttn attgatgcgc ttccagttgt gaaatactgt tcctgagaac 420
aacaaacgtc tcaatcn 437

<210> 5756
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-B6

<400> 5756
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ttgacctgga atcgacgcag tgacttcaat tcaactattg cacttggttt gttggcaatg 120
gacaaaggag cacctcctag tatttttctg aatgatgggt cattcatgga aagattcaga 180

cagcttcaac aggagaaaga taaagacaag gataagggtg tccaagttga ggattctaag 240
 ccggtgaaga ttatatcaaa tcccaaacct gctgctaata aaatttccat tggattaaag 300
 cccaatgatg cccagaagaa aggtggtaag cttgctttca gcttgaagca aaagtctaag 360
 cttcttgac ctcctgtgaa gcttggtaca gaagaagatg aagatgatga agatgttaac 420
 atgnacaaag g 431

<210> 5757
 <211> 436
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-B8

<400> 5757
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 gaatatcttc cacgggggag tccttcggaa gcatgcttga tgaaaatatt tgttgccact 120
 gtggaacaa tactcagtag aacttttccg cctgaatctt ccagggaact aaccagaaaa 180
 gctagatcga gttttaccac aagatcagcg accaaaaatc ttgctatgtc tgagcttcgt 240
 gctatggtcc atgctctctt tttagaatca tgcgctgggtg tggaattagc ttcacgccta 300
 ctttttggtg tgttgactgt atgtgttagc catgaagcac agtctagtgg tagcaagaga 360
 ccgagaagtg aatatgctag tactactgaa aatattgagg cgaatcaacc tgtatctaac 420
 aatcaaactg ctaacc 436

<210> 5758
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-C12

<400> 5758
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 atcatctaag tgctgggtgcc ttgattctgc agttctccat tttaatccaa caaaaaaaga 120
 agctgaatcg acggtataga ttcttcaaag aagcaatcat aacgcaattg attatatccc 180

aattcgaccc ttagcttag ttgttgttta taatttcttg tgatcattca cagtacaaaa 300
aaactaattc acccaccgan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt ccgggaaatt tgatctcttt acctttcgtc 420
attattaagt angga 435

<210> 5761
<211> 465
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-C8
<400> 5761

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agaaccagaa cgaaacccta gcaaaatata gccatgggta aggtcaaagg aaagcatcgt 120
ttggataagt actatcgtct cgctaaggaa cgtggattcc gttctcgagc ttcctacaag 180
cttcttcagc tcgacgcaa gtactctctt ctccactcag ctcatgccgt tctcgatctc 240
tgcgccgcc ctggtggttg gatgcaagtc gccgtcgaga aagttcccg cggcagcctc 300
gttctcggtg tcgatcttgt cccgattctc cctgttcgtg gctgtgttac tatgacgcaa 360
gatatcacia ggactgagtg taaatcgaag atcaagcaag tgatggagna gcatgggtgtt 420
agtgtttta atttggttct gcacgatggg tctccaaatg ttggt 465

<210> 5762
<211> 446
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-D1
<400> 5762

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tgattttggg gcnttcaatg agaaagttac aatctctcca acttctactt cctcgtcgcc 120
tccttctcta cagggtctta ctttcgccat taaagacatt tttgatgtgg aaggacgcgt 180
taccggtttt ggtaaccggg attggttaag gacacactcg gcagctactt ctacagctcc 240

agtagtttca tctctcttag aagctggtgc cacagctttg ggtattacca ttatggatga 300
aatggcttac agtataaacg gagaaaatgc gcattatggg actccgagaa acccgattgc 360
tttcgataga gtgcctgggg gatcatcgag tggctcance gtanctgtan ctgctcgtcc 420
tgtggatttt ccaatgggac tganaa 446

<210> 5763
<211> 414
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-D2
<400> 5763

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agcgggagat tccagattga gagcagcttc gagtctctct ctectcgccg ttccttttcg 120
cttcttcaag tttcgttgcc agagagattc taggtattga agttatagaa tggactttga 180
tgagtatgag tacttagaga agacagttga aaatcctcac ctggagaatg aagttggtaa 240
tgggtggtggt gatgagaaag tcaaactctga agggaaagag aggagtagga gctcaaggca 300
tangggtgac aagaagaagg agagggatga agatgaggat ggtcggcggt ctaagcggtc 360
gagatcgcat caccgttcac gttctaagga cagatagaag gataagcata aaat 414

<210> 5764
<211> 434
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-A6
<400> 5764

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cgttggtagc atggagttat tacattcttt tacaccacgc caggagggac aggaaggtga 120
atctctctct catgagcctc caattacaaa actgtatact agctcaaatg atgattggtt 180
agctgctatc aattgctttg gggacatata tgtgttcaac ctggaaaacgc agaggcagca 240
ttggttcata tcaaggcttg atggtgcac tggtgcagcc gctggttttc atccgagggg 300

caacaatgtg attgtgatct ccacctcttc aaaccaggtc tttgcattgg atgtggaggg 360
tagagagttg agcaagtggg cattgctgca nactttttgt ctgccaaaga gctaccaaaa 420
ttttcctggg tgan 434

<210> 5765
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-005-Q1-E1-G1

<400> 5765

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ctttagcgag aagtagctgc ttcattcccca aaccttattc ctttagagat actaagctga 120
gaagcagatc caatgtcgta ttgcgctgca atgataataa gaacattgct cttcaagcta 180
aggtagataa cttgttggac cgcattaaat gggatgacaa aggattagct gtggcaatag 240
cacaaaacgt tgatacggga gcagtattga tgcaaggctt tgttaatagg gaggcctct 300
ccacaaccat cagttctcgg aaagctacat tctttagtcg atnaagatct accttaagga 360
ctaagggaga gacatccaat aacttcatca ataactctga tgtgtaagtt gantgtgatc 420
gtgaatcgat tatttncctt gggacaactg atg 453

<210> 5766
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-005-Q1-E1-G11

<400> 5766

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gagacgtgcc atgactttcc cgagagatag tatgatttac cgagaaaggc attgcgctcc 120
tgagaatgag aagctccatt gtcttatacc ggctcctaaa gganatgtga cacctttctc 180
ttggcctaag agtcgagact atgtgcctta tgctaagtcg ccgtataaag cattgactgt 240
tgagaaggct attcagaatt ggattcagta tgaggagac gtttttagat tccttggtgg 300

tggaactcag ttccctcaag gtgctganaa gtatatcgat cagcttgctt ccgtgatanc 360
tanggacgaa cggaactggt aggactgctt tggacactgg ttgtgggggt gcaagttggg 420
gagcgtactt anggagcaga tnatgtgcgt gcaantgtcc ttg 464

<210> 5767
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-005-Q1-E1-G2

<400> 5767

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ccagcctctt cttccttcgt ctactagatc agatccaaag cttcctcttc cagctatggc 180
tgcttcagta cactgtacct tgatgtccgt cgtatgcaac aacnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnntct gagagagctn agcanagaaa acacaccaat tggtccttct tctcctggat 420
ttnaaccaat tccaaccttt tgaagaaagc ctttctaaaa 460

<210> 5768
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-005-Q1-E1-G4

<400> 5768

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cgcgccttgg gttcgatcat gatcttaatt gttatcgga tcatcggatt cacatactac 180
gccgttgctg tcgttaatta cggacctgct ctactgatcg gtggtgtcga ttcattacta 240
tctgttctcg tcttagcggt cttccacttt ctgcttataa tgctactgtg gagttatttc 300

tctgttgttg tgacggaccc tgggtggtgtt ccaacggggtt ggaggccaga attagacata 360
gagaaaaagcg aaggaaacca agcttttgant ggagaagctt cggttggana tcctccgten 420
caatggtgta agatattgtn aaaaagtga tcaataataa accgccccgt ttcaacaatt 480
gttaatn 487

<210> 5769
<211> 445
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-005-Q1-E1-G5
<400> 5769

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cagctcttgt acgcagattc tgccggggat catcttttcc ggtctctggt catggatata 180
ggatgctatc gacggttgaa aatgtatctg aaagtggtaa atcgatgaat ctatactctg 240
ctattaatca agctcttcac atcgcttttag agaccgatcc tcggtcttat gtttttgggg 300
aagatgttgg atttggtggt gtcttccgat gtacaacagg attagctgaa cgttttggga 360
aatctcgagt tttcaacact cctctctgcn agcaaggcan tgttggcntt ggcantgggt 420
taaccgcaat ggaaatcnaa ttatt 445

<210> 5770
<211> 468
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-005-Q1-E1-G6
<400> 5770

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actcatcggc gacaataaca actactctct tgctcaccac tttttagacc gtgtctggtt 180
cctttgtctt tggctcagct ataggatatt catcacctgt tcagtcggat ttaaccaagg 240

agttgaatct ctctgtggca gactactcgc tcttcgggtc gattctgaca attggagcaa 300
 tgatcggcgc agctatgagt ggacgaatcg ccgatatgat aggcagacga gctactatgg 360
 gtttctcgga gatgttttgc attctcggct ggtagcaat ctaccttcn aaggttgcaa 420
 ttggctttaa ctttgggaan attcctgggt tgggttatgg aaatgggc 468

<210> 5771
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-005-Q1-E1-G8
 <400> 5771

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 aggaaggatt gaactatgga agatgcatca gagactagct actggtgtca catgtgctcc 180
 cgatcggatga ttccattgat tcaagacgaa atcatcaaat gcaatttctg tcaaagtggc 240
 tttgttgaag aaatggataa taatgatgac catcaggctg ctgattctct ctggactcct 300
 atcttgatgg agatgatgaa caacaatcac gaccaacatt ctacaaatca ggaagactca 360
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 aagatggaga aattgtatna ccctca 446

<210> 5772
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-005-Q1-E1-H10
 <400> 5772

agcgnccagg taacgggtcaa agnattcccg ggctttattt cctctancaa accccaacaa 60
 ctacctgaag actattctct ctcaaaagct tacggaacga aatgactcac cgtatagctc 120
 ctcgatgttt ctccaccatc atgcttctat gtcttctata tacttcacct ctagatgtta 180
 tagctcaggg tcagggagga caaggtgata taccagttgt taatcctaca gctccaggtg 240

gtagtaccac aacaccaacc ataacacaac cgtcaccgcc ttccttgaca ttcccaggtc 300
 caactacacc aactgggtggt tatccacctc ttgacgggtac cacgccaacc ggtgggttacc 360
 caccacttta tggtactaca ccgccannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
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<210> 5773
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-005-Q1-E1-H4
 <400> 5773

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 atctctacaa gaaaacccca aaaatggacg gactttgcta cgatcatcttc atcatcttct 120
 ccctgctatc ctgcgctttc tctcccttat catacgccctc tccggccact ttcagtcgcc 180
 gtcaccttct tcaagctcct gtaactgann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnncaatt ttgcgaaatt tccgggggaa naaccncggt ccnngtcttc cttngttccc 360
 cnaaacggaa aaatccttcc gntaaatcct tatecnggga annccggccgt ggcccncceg 420
 nggaaaatta atcgnetttg gccttttctt caaagg 456

<210> 5774
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-005-Q1-E1-H8
 <400> 5774

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 ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncgattttt ataaaaatgg 180
 cggcggatgc tctgagaatc tcgagttcta gttctggttc gttggtttgt aatcttaatg 240

gttcacaaaag acgacctggn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaattcc tcagtttctg ggtacttctc 360
 gtattgggct angttcttcc aagctctcac aaaagaaaga aacaattctc aatcttcgct 420
 gcaactgaaa ccgaagngaa a 441

<210> 5775
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-A10
 <400> 5775

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 anccagggga gcttcaatgt tcgtaaagaa gttgaaaact tggtagtagc gtncatgaca 120
 ccaangctga taagtaacct taaaccanag acgcaatcaa agcttataga taatctcaac 180
 gccttcaatc ttgattgggt taagtccttc ttaagactct ctacttgga agctgtcacc 240
 aaagncctca agtcacgcga agaagctatc cagggtgatga aagacgttct catgatgaga 300
 aaagagacgc gagagangca agaagacttc cttaanacgc ttctagaaga antggngaana 360
 gacggtagct ttttcgacta angatcggtc atnaatctca tcttccttct ggcgtttgccc 420
 ttgagagaan gtacctccaa gttgtactgc tttggccgtn aaagttcaaa tcc 473

<210> 5776
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-006-Q1-E1-A2
 <400> 5776

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 cattgggatg tentatgctt catgcatctt tgtecgctgc tcaactcacc cctaccttct 180
 acgataggct atgtcctaata gtcactaaca tcgtacgaga aaccattgta aatgaggtta 240

ggtcgggaccc tcgtatcgct gcgagcatcc ttcgtcttca cttccacgac tgctttgtta 300
atggtttgtga cgcattccatc ttgtagaca acaacgacat catttcgaac agagaaagat 360
gcgtttggga aacgcaaatt cggctcgggg atttccagtg attgatagaa tgaaanntgc 420
ggttggaaaa ggnatgccca anaaccgttt cat 453

<210> 5777
<211> 460
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-A3
<400> 5777

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acgagctcga gattattgat tttcaagtgg agattgaatc agtgataatg gacaatgaga 120
cgaaagcaac caccttcage aaatcaacag ggcttcctag gaagagattc tacagagcaa 180
gagctcatag taaccactt agcgattctc acttcccaat ccccatatct ccagctcatg 240
tcgactattc acttcacttc cccaaattcg ttgaagctga caacaaattc atcaagaagg 300
ttgagtttgc ggatatcgga tgcgggtttg gtggcctact aatctccctt gcgacgcttt 360
tccccgatac gctaattgat ggtatggagc tcagagataa angtgacggg agtacgttna 420
agaacggatc ttanctttta aggggaacaa actccggggg 460

<210> 5778
<211> 442
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-006-Q1-E1-A5
<400> 5778

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tgactgctgc tcaaggacct caggataccc aggccctgaa cggaagattg gcagcaccta 120
gttcaccatt tgatgatgac tctgatgatg ttgatgagca acctcttggt agacacaggc 180
caagacgtgc agcatccgga tctctggctc cacctaacgc tgatcgttcc cggagtggga 240

ttctcaggtt gggtttcagg aatctattgc tcctctttcg aaagaccctg ataggtttaa 300
 acccaagaga gccgctgtgt tgatctgtct ctttgaagga gatgatggtg atttgcgtgt 360
 tattcttact aagagatctt ccaaattgtc tactcactct ggagaagttt cattgccagg 420
 tggtaaagcg gaggangatg ataa 444

<210> 5781
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-B3
 <400> 5781

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 aaaaattctt cacttgggtc tcttctctct ctcttctctt gcgaccattc cgttcgatcc 120
 atatatcaaa gcttgattta gttgggtttc aatggggggac agtcagtact cgttttctct 180
 caccaccttc agcccatcag ggaagctggt tcagatagaa catgccctaa cagctgttgg 240
 atcaggccaa acatcacttg gaattaaagc ttcaaatgga gttgtcattg caactgaaaa 300
 gaaacttcct tctatattgg ttgatgaagc gtctgttcaa aagattcaac atttgactcc 360
 caacattgga actgtttaca gtgggtatggg tcctgatttc cgagttcttg tgcgaaagan 420
 tangaagcat gctgagccan tatccccgtc tgtacnagga a 461

<210> 5782
 <211> 440
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-B5
 <400> 5782

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 aacacctaata gattgaagct tttgctcgtg ggttatgtaa agtttccacc tttcgtcttc 180
 tttctgatct gtgagcaaaa atgggacaac agcaatcaaa aggggaattg ctgtatcagc 240

aagttagtta tggttaactct gaaggaattc gagctcttca tcgagatggt ggagaccttg 300
 agtggatgga tagagaagga aaaactccgt tgatcttggc ttgtatgaac tccgagctat 360
 ttgatgttgc taagactttg attgagttgg gttctaattgt naatgcttat cgtcctggcg 420
 tcatgctggg actccccctgc 440

<210> 5783
 <211> 485
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-B6
 <400> 5783

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 agcgagcaag atacgacacg aaatcgatct ccccttgcg ttttccatct ccgtcgtctg 120
 ctgaaaccat ttgatcgatc tctcagataa ggttctcagg atttaggttg cttctatgag 180
 aaggacacgt tgcagttggt gcttcatgtc tagtttctca accgtatagg gagtcttcaa 240
 cttctgggca taagcaagtt tgcaccactc gtaatggctg gacagcattt gtaaaaagag 300
 tctctatggc tagtggagca attaggagat tccaggagcg tgttttaggg cctaatagga 360
 ccggtcttcc gagcacaact agtgacgtat ggctcttggg tgtctgctat aaaanatctg 420
 cggatgagaa ctcaggggaa accgatactg gcactgtatt ggctgcattg caactagatt 480
 ttcca 485

<210> 5784
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-B8
 <400> 5784

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 ctttagtttc gctctttccg aggaaaaaca aaacaaagat ttgatttttc tttttggtgg 120
 gtttaaacag tgattttctc ttttgccctt ttattgggtc ttattgttct cctcaaaaagt 180

ctacaggatt gtcggaagca aacacacttg tccatggta tgaatttccc tctaattggt 240
gaagaagaca catgaagcag tgaaatctct gtttgtattg aatcttatta gtctcaaact 300
atgaatttcc gacaagagaa gtttghtaagg tttcaagatt ggaagtcgga taagacttcc 360
tccgacgtgg aatattccgg taaaaacgag attcaaactg gaatattcca agagaacaat 420
aanctcaatc tccgacaagt ttac 445

<210> 5785
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-004-Q1-E1-C10

<400> 5785

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gcttactagt attcaacaat ggcggatccg accaggaacc gattctcgtc ccgatccttt 120
tcgaactttc cggggactac aaaagggttt ctgctgtgggc attttaccgg acggagtcga 180
cagaaattcg gaggtttttt ctagcaattc gatcgccatg gaagggatct tatcgagact 240
tcgttcccat atcaaaaagg tattggccgg aggtggagag gaagcggta agaggaacag 300
aagcagaaac aagcttttgc ctagagaaag gattgatcgg ctacttgatc ctggttcttc 360
ctttttggag ctctctcagc ttgcaggaca tgaattgtat gangagcctt tgccttcang 420
tgggataatc acanggatag ggaccaatcc aagg 454

<210> 5786
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-004-Q1-E1-C3

<400> 5786

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cgatacatc tgctgctgca gaaattgatg aggccattga atcacatcga gcttcaatgc 120
gcttatcagg acgcttggcg tgtttgtcac cccaatttta aacaaccctt ctcttctctc 180

gggttggtgca ggacactgag gtgcaatata actactgtgt gtatgactcg gacagagcta 180
caggggatgg agttggagcc tttttgttct cagtggctag tcaaatacctt atcatgctcg 240
ttagccgttg cttctgttgt ggaaagcctc tcaagcctgg cggttcacgc gctcttgccc 300
tcattctctt cattgttagc tggatgttct tcttgatagc ggagatatgt ctattagctg 360
gatcggtaga gaatgcatac cacacaaagt acaggacaat gttcatggac aatcctcctg 420
attgtcaaac tctacgtaaa agcgtctttg cagcangcgc c 461

<210> 5789
<211> 438
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-004-Q1-E1-D1
<400> 5789

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aagaagaaga agnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnaaatta ggtttttttt gttgtttcca ttagttgtct 180
cattgtctgt gaagagaaag gaacagagga aaatgtcaga cctagacaag caaatagagc 240
agcttaaacy ctgcgaggct ttgaaggaat cagaagtga ngctctttgt cttaaagcta 300
tggagattct anttgaaaga gagcaatggt caaagagtcn atgctcctgt cactatatgt 360
ggcgacattc atggacagtt ctatganatg aangagcttt tcanagtttg gggtgattgc 420
ccctaagacc agntatatt 438

<210> 5790
<211> 464
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-004-Q1-E1-D10
<400> 5790

tcanaattca aaggtcgacc naccggtccg ancacgcac cgcccacgcg tccgctgtaa 60
cattaccaaa acgaaacctt ccttgtggat tcccacttct ttcttctgtt ttcttcttcc 120

tcttctttaa attggatggt ttgggcaaga aacagagaga aacacgttaa tttgagagtt 180
 tgtcattgaa tattttggtt gcaatggaaa gagattttct gggtttgagc gacaagcagt 240
 atctaagtaa taacgttaag catgagggtta acgatgatgc tgtcgaagaa cgagggttaa 300
 gtacgaaggc agctagagaa tgggggaagt caaagggttt tgctacttca agtttcatgc 360
 cttcttcaga tttccaagga aggctaaagg cgtttccggg gtgcatacca attggggatn 420
 aagtttctgc cggccaatgt tttccgcaga tgccaatttg gngg 464

<210> 5791
 <211> 479
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-D2
 <400> 5791

cccggtcana gaattaacgg gncgaccac gcgtccgaaa aaaaggaagg cgaatcgtag 60
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 aatacaaaata gtgtattagt agtttgattc ttttcaccac ggtgtcggta cgattgaagc 180
 tcctccctcc aagagccttc gtacagagac gtttctgctg aaatttcaag caagtgtgtt 240
 tgtcagatgg agcggtatga agtcttgagg cagatcgga aagggtcctt tggctctgct 300
 cttcttggtta gacacaaaca agaacgcaag aaatacgttt tgaaaaagat tcgtctcgcc 360
 cgccaagtct gatagggctc gacgatcagc tcatcangag atggagctca tttctactgt 420
 ccgcaatcca tttgttgctg agtacaaaga ttcatgggtt gaaaagggtt gccatgtgt 479

<210> 5792
 <211> 488
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-D3
 <400> 5792

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 tggctcattg ggggtgatct tgaggttctt gagccagtga agtacaatga tgggcttgat 120

cgtttcaggc tttcgctgc tgagttacgt aaagagttgg agaagcgtaa tgcggatgcg 180
 gtgttttgctt tccagctgag gaatcctggt cataatgggtc atgctcttct tatgactgat 240
 actcgttagga gacttcttga gatgggttac aaaaacccta ttcttttgct tcatccgtta 300
 ggtgggttta caaaggctga tgatgttctt ttagattgga ggatgaagca acacgagaag 360
 gttctagagg atggtgttct cgatccggag actacagtgg ttccgatatt ccccgtcanc 420
 tatgcattac gcctgggtcca aaccgaaatt gcaattggca cgccaaaggc ctagaatcca 480
 atgcctgg 488

<210> 5793
 <211> 491
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-A3
 <400> 5793

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 ccccgttcac cgccgatgac agaacgaatc agagcaagag gaccagatc atcctctggt 180
 aactctgttc ctctgattct tgacattgaa gacttcaagg gtgatttttc atttgatgca 240
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 ggggatggcc atggcaacat tgctggagtt gatggtttga caaatgggca tttacgtgga 360
 cagtctgctc ctttgtcctc tgctcctttt tttcctgaag tagatgggtct tttgtctctg 420
 ttcaaagatg cttgcaagga gttagttgat ctcggaagca agttgatgga aggtcaata 480
 cactaaagga a 491

<210> 5794
 <211> 490
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-F7
 <400> 5794

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 ccgttacgct gctgcacaag ggatggcctc gatgatctgc ctctacggag taccgcttct 180
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 ctacggaatc ttgaacaagg tgttcacaa cattacagac acacacgtgg ctcatcacct 360
 gttctcgaca atgccgcatt ataacgcaat ggaagctaca aaggcgataa agccaaattc 420
 tggggagact attaccagtt cgatggaaca ncgtnggtat gtanccnatg tatangggaa 480
 gcaaaaggag 490

<210> 5795
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-F9
 <400> 5795

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 cgattggggg tacggacgga tctacacaac agtcgtcgtt aactgtactt tctcatcaat 180
 ctccgccgtg aatccacaaa actccggtgg aactctcatc ctccacgcca ccaccggaga 240
 tccaactctc aatctcaccg attcaatctc agtcctaacc gaacctcca aatccgtcga 300
 tttcgatctc tataactcca cgaagaagac gaagaagtag gattatctct attgcggatc 360
 gtccttatac ggtaacctaa gtcgcaacg agttagagaa tggatcgctt accacgtag 420
 attcttcggt gaacggtcac atttcgtgct acacgacgcc gganggattc atg 473

<210> 5796
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-G11

<400> 5796

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 ggtaacttg aatcttgact ggagagagggc tgttcgcat cctgatgacc gtgttgagta 120
 tgagttgtgg actaatagta atgatgaatg tgggggtaag tgtgatatgt tgatggagtt 180
 tgtgaaagat ttttaaggag cggcgcagat tcttgagaaa ggcgggttta cgcagtttag 240
 acctcattat attacttggt attgtcctca tgctttcacg ttgaagtcga cagtgttaagt 300
 ctgagtgat caataaagga aggtactgtg ctctgatcc agagcangac ttttagctcng 360
 gataccatgg aaaaagatgt tggtcntgga aaaacntgag acagcctttg tgtttacaan 420
 ggtggcgaat gaaaccggcc aaaccttggg tcnngtgga tatgttcctg attccana 478

<210> 5797

<211> 448

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-003-Q1-E1-G5

<400> 5797

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 ttataagaaa ctgctttcat catgtaagga gcagatgcct cttttttcgt gtagtttgct 180
 aagcattgtc agaactcttt tggagcaaac aaaagaggaa gaagttcaga tcttggggtt 240
 caatactctt gtcgacttta taagtttaca gactgtgaat tcgcacatgt tcaacttaga 300
 aggtctaate cctaaacttt gtcaacttgc tcaagaaatg ggtgatgatg aaagatcact 360
 ccaattacgg tcagcaggaa tgcaggcttt ggcattcatg gtatctttca ttggtgagca 420
 ttcccaacta tcaanggact tggatatg 448

<210> 5798

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-003-Q1-E1-G8

<400> 5798
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 aaaaaaatgg cgacggtaca attgtccacc caatttagct gccaaaccag agtttcaatc 120
 tcaccgaact ctaaattctat ctccaagcct ccgttttctgg taccggtgac ctcaattatt 180
 caccgcccga tgatctccac cggaggaatc gctgtttccc cccgtagagt tttcaaagtc 240
 cgagccacag atacgggaga gataggatca gctctattgg cggcggagga agcaattgaa 300
 gacgtggaag agacggagcg gctaaagaga tcgctcgtgg attcgttgta cggaacagat 360
 cgaggtttaa gcgcacgcag cgaaaccaga gctgaaatcg gagatctaata cacacagctc 420
 gagtctaaga accctactcc agctccgacg gaagctcctt tcctttctcaa aggnaaaatg 480
 gattctcgcc t 491

<210> 5799
 <211> 475
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-G9

<400> 5799
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 tgcttgatcc gaacactctt agtgatgatg gaacagtggc cttaaaccac ttttctgtca 180
 gcgaggatgc taagtacttg gcctatggtc ttagttcaag tggtagcgac tgggtgacga 240
 ttaagctgat gaaaatcgag gataagaaag tggagcctga tactttatca tgggttaagt 300
 ttaccggcat tacatggacg cacgacagta aaggattttt ctatggtcgc taccagctc 360
 ccaaagaagg agaggatatt gatgctggca ctgagactaa gtctaantct tatcatgagc 420
 ctgtattaac atttcaantg ggancggatc aatcctcaag atnccttaag cctgg 475

<210> 5800
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-003-Q1-E1-H1

<400> 5800

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gttcgtgaaa aaaaaagatt tgatcggcta aacttggtcg ctttcagggtt tatcgtggaa 120
ggacttgtca atggcagacg tacctggata cctgcgcact tgtttggata tggggaagat 180
agctttctta gcaatccttg tatctacagg gatttgtgtg cagattctgg ctttgtctct 240
gttcaataac tggtaggcaa tgctaagtgt tataatgtat gtgctcctcc caatgccttt 300
gctcttcttt ggtggatcag acagtacatc tctattcaac gagtcagata atagttggat 360
caatgcagcc aagttcttga ctggtgcacg agcagttgga agcgtcgcga taccatcgat 420
tctaaaacac gccggactca tcggttgggg cgcattaa 458

<210> 5801

<211> 485

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-003-Q1-E1-H12

<400> 5801

cttttacgct tccaggtgcc ggtcaagaat taacgggtcg acccacgcgt ccgagaaaaa 60
taagatacca ctcacaaaaa acttctctcaa aactaacaaa tggatactaa taaagcaaaa 120
aagcttaaag ttatgaacca actcgttgaa ggccatgact taacaactca gcttcagcaa 180
ctctctctc aacccgggtc cgggtctagag gatctagtgg ctaaaatctt agtgtgtttc 240
aataacacca tctccgttct tgataccttc gaacccatct cctctctctc atccctcgcc 300
gccgttgagg gatctcaaaa tgcttcatgt gataacgacg gcaagtttga agattccggc 360
gatagtcgga aaagattggg acccggttaag ggtaaaagag gatgctacaa aagaaaaaag 420
agatnggaga cgtgtactat agaatcgact atacttgagg acgcattttc cttggaagga 480
aatat 485

<210> 5802

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-003-Q1-E1-H2

<400> 5802

acncgtccng atttaacagg aatttgcgga attttgatta tatcagtgag tagaagaaat 60
gagcgcagtc tcgggtgtaa tctcgaggca agttttgcct gtttgtggta gcctttgtat 120
tctttgccct gcgcttcgtg caaggtctag acagcctgtg aagaggtaca agaagctcat 180
tgctgagatt tttcctcgta atcaggagga aggcataaat gatcgaaaga taggaaaatt 240
atgtgagtat gctgcaaaaa acgctgtgcg tatgccaaag atatcagatt ccctggaaca 300
tagatgttac aaggaattga ggaatgagaa tttccactcg gcaaagataa ccatgtgtat 360
ttacagaagg cttctgggtca cttgtaagga gcaaatacct ctattttcta gtggtttcct 420
aaggacgtgc aagctccttt ggatnaaact cgacaagaa 459

<210> 5803
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-003-Q1-E1-H6

<400> 5803

aaaattaaac gggncgaagn cncgcgtccg cgcaaatct caacgaagct cgaaaatgga 60
ttcacgaacc aaggggaaga cgggtgatgga agttggtggc gatggcgttg ccgtcataac 120
actcatcaat cctcccgta attctctatc cttcgacgtg ctatacaatc tcaaaagtaa 180
ttacgaggag gccttgagca ggaatgatgt taaagctatt gttattactg gtgcaaaggg 240
gaggttctct ggtggctttg atatatctgg ttttggtgaa atgcagaagg ggaatgtcaa 300
agagccaaag gctgggttaca tttcgattga catcataacc gacttgcttg aagctgctag 360
gaaaccgtct gtcgtgccca ttgatggact tgccttgga ggaggattag aacttgctat 420
ggcttgtcat gctangatat cagctccctg ctgcacagtt aagcttcng aactgcaact 480
tggt 484

<210> 5804
<211> 476

<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-H9

<400> 5804

gctgcccagg naccgggtcaa gaattnccgg gtcgaccac gcgtccgggc gtttggtttg 60
 atcggaagag ttgttggaaac caaatcatca cgattatcca cggcggcgcg attgattccg 120
 gcgcgatgga catcaacagg atcagaagca caatcgaaag cttcaaccgg cggcggagga 180
 gcgagtctga agacgtttca gatctatcga tggaaatccag ataatcctgg aaagccagag 240
 cttcaagatt acaaaatcga tctcaaggat tgtgggtccaa tggttctaga tgctttgatt 300
 aagattaaga acgagatgga tccatcgctc actttccgctc gctcttgccg tgaaggtatt 360
 tgtggttcgt gtgctatgaa cattgatgga tgtaatggtc ttgcntgttt aacgaagatt 420
 gaatctggat ctaaagagac gacgattacg ccgttgcccg catangtttg tgatta 476

<210> 5805
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-A1

<400> 5805

acgcgtccgc tctgctaaag tttcagatct tggctctcgg tctattgggc gtagctgccc 60
 ttctctcggg tctctttcac tgtggaacgt ttctaccatt actgacaatg gacttttgga 120
 gattgctgag ggttgtgctc aacttgagaa gcttgagctg aaccgctgct ctacaatcac 180
 tgacaagggt ttggtagcta ttgctaagag ctgccccaac ttgactgagc tgacattgga 240
 ggcttggttca agaattggag atgaagggtt tgctagccat tgcaagatcc tgctccaagc 300
 tgaagtcagt ctgatcaag aactgtcctc ttgtcaggga tcaaggaatc gcctctctac 360
 tgtctaacac cacctgttcc ttggcaaaac ttaangcttc agatnctgaa tgtcactgan 420
 gttgtccnct tgctgttggt ggggtcaatta acg 453

<210> 5806
 <211> 473

<212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-004-Q1-E1-A2

<400> 5806

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caggccggtc aaagaattaa cgggtcgacc cacgcgtccg gataattatg aacaaaggcg   60
gtggatccgg tggcggatcc ggtggaggaa gcggtccaac ggccgccgcc gccgccgcgg   120
ctttacagaa gcaaaaggcg ttgttacaga gagtggagac tgacatcaca tctgtcgtcg   180
ataacttcac gcagatcgtc aatgtttcaa gggtgagtga tccgccggtg aagaactcgc   240
aggagacata catgatggag atgcgagctt ctagaatggt tcaagcagct gattctcttt   300
tgaaactcgt atcagaactt aagcaaacag cgatattttc aggatttgca tcactaaacg   360
atcatgtaga acagagaata gaagagtttg atcaagaggc cgagaagaca aatcgattgt   420
tggttagaat tgctgatgat gcctctgcca atcttaaaga actcgantcc act         473
  
```

<210> 5807
 <211> 462
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-F6

<400> 5807

```

gggncgaggc ccgcgtccgt tcaccaactc ttatataccan gcctctgtaa cgttcgatca   60
tcttgtatct catttcaacc actcattggt tttagtttgt tttacgaaga atcaactatg   120
gcgacgaaga gaagcgttgg aactttgaag gaagcggatc tgaagggaaa gagtgtgttc   180
gtgaggggtg atctcaacgt tcctttggat gataactcta acatcaccga tgacancagg   240
attcgtgccg ctgttccac catcaagtac ttgatgggta atggatctag gggtgttctc   300
tgcagtcact tgggccgccc aaaagggtgt actcctaagt acagcntaaa gcctcttgtg   360
cccagattgt ctgaacntct tgggtgtgan gttgtnatgg canatgactc caantggtga   420
ggaagtccaa gaagttgggt gccgggacta cccgaaagtg gn                     462
  
```

<210> 5808
 <211> 472

<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-A10
 <400> 5808

angtgccggt caaagaatta ncgggtcgac ccacgcgtcc gatttgaaca agtgtgattg 60
 tttgtgacac agatttggat cggcgaatct tttgatgata aagattactt catttctggt 120
 tattctcgaa gagtagaggt ctcaaaagaa atggagtcta aggaaattag atcctcctct 180
 gtctttgaga gatcgatgcg ttttaatgga ctctttcaag ataagctgag agttgttgag 240
 aaacagaatc aaccaccaaa acggtttaac caaaaggagt ctaattctgg tttcacagtg 300
 attccaacga agcaactttg tcgagtttat ctccagaaac cgaatttggt ggcttccaag 360
 ggtataattg atgcactagc taagcctcct catangattt ttgggtagga gatatgatca 420
 gcaaaacttc aagtcaaagc tgagacatcc ttcacacaac aagtntgatc cc 472

<210> 5809
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-A3
 <400> 5809

acgcgtccgc ttcttactca acttttgctt caggcttcgt ctcttttgca atttttgagt 60
 tagccaagtg ctcaaggag atacataata cctgaagatg tccaaggcaa gtgatgccgt 120
 cagagaacca ttggtggaca agaatatggc tggatcaaaa ccagaccagc cgtggatggt 180
 ttatctcagc acattcggtg cggctctgtg ttcttttgcg ttcggttctt gtgcgggata 240
 ctcttcacct gctcaggctg caattaggaa tgacctttca ttgactatag ctgagttttc 300
 actctttggt tctttactaa cttttggcgc aatgatcggt gctataacaa gcgggcctat 360
 agctgattta gttggaagaa agggggcgat gagagtttcc tctgcatttt gtgtagtcgg 420
 gtggctagca atcatctttg ccaanggagt agttggcc 458

<210> 5810
 <211> 474

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-A5

 <400> 5810

 gggtcgangc acgcgtccga aaaaaaatg ggagaaaacg gagccaagcg atggaacttc 60
 ggagctaacg aggtcgtcga acgatctaac tcaacttacca ttcgtgatta ccttaacacc 120
 ttaatcaatt gtctcgacgg tggatgatgta agaccgcgtca tcccactagg tcacggcgat 180
 ctttctccgt tcccagagctt tcgtaccgat caagccgctg ttgaagccat ctgtgatgct 240
 gtccgttcga ccaagtttaa caactactct tcttcttccg gtgttctctg cgctaggaag 300
 gctgttgcag agtacctctc tagtgatctc tcttaccaga taccacaaa tgatgttcat 360
 atcacagctg gttgtgtgca agccattgag attttgatat ccgctctcgc aattcctgga 420
 gctaacattc tgctacctaa gcctacttac ccgatgtacg aatccccgag cngc 474

<210> 5811
 <211> 477
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-A7

 <400> 5811

 taacttccgg tgnccgtcaa aanattaacg ggtcgacgca cgcgtccgaa aagccataac 60
 caagattcgt caagaaatca acacacaact atctccaaga accaatgatt ttgattcatt 120
 caatgctcaa gagttaaaca agttggtgta tgtacatgga gcattgtgtg aagcccttag 180
 gctatatcca ccggttccat ttcagcaca gttctctaca aaatccgacg ttcttccaag 240
 tggacacaga gtcgatgcga gttcgaagat tgtgttctgt ctttactcat tagggagaat 300
 gaaatcagtt tggggagaag atgcatcgga atttaaaccg gagagatgga ttccagagag 360
 tgggaagggtg attcacgtgc cttcttttaa gttcttatcg tttaatgccg gtccaaggac 420
 ttgtttgggg aaagaagtgg ctatgacaca gatgaagaca gttggctgtg aaaanta 477

<210> 5812
 <211> 489

<210> 5814
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-D1

 <400> 5814

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taactntccg cgcgacggta aaaggtcatg naattcccgg gccgaccac gcgtccngta 60
taccacaaaa cctcaaaatt gtaattttatt agattatcgt gatggcctta gctaaagagt 120
taatgggtta tcctctcatc acagaaaggt catcacttgt ctcgtcggcg tcgcatttca 180
agaagaggac acagtcaaca cagttctcga tcaacccttt tgaccggaga ccaagaaaaa 240
ccaaatccgg cgtcggttga gccatcagcg aggatttggg caaacgctg cgtttttcca 300
caacgaccgg agacagaaag agcgaanagg aggagaaagc ggcggtgaag ttcanggtga 360
gagctgtggt nacngtgagg aacacngaac aaggaggatt tgaanggaga ctcttggtta 420
gcanttggat gcctttgctg atnnnattgg ncgaaacatt gtccnggagc ttatcatc 478
  
```

<210> 5815
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-D6

 <400> 5815

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cggggtcgag gcacgcgtcc gccactttaa acccttgtct acgctggtcc gagtccagag 60
tcctctactt tgacagtctc cctccatgtc gtcgttgtgt gcatctaatt gctatccttc 120
atcttcttct atcaatctct tctccaacaa caacaacca actaaaccct ttcttctctc 180
cctcagattc gcctctctca attctcttcc atttggtgct cctctcaaatt tctctactac 240
caatcacgtc cttagtaact ctcgtttctc ttcgaaccga atccaaagac gccttttttt 300
gtccgatgc gtttcagaag aatctcagcc gtctcttctc atcggtaacg gcggctctga 360
agagagagtg aatgttcttg taattggtng aggagggaga gaacacgccc tttgccacgc 420
cttgaangcg gtctccgtcg tggttaagtcc ggng 454
  
```

<210> 5816
 <211> 409
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-E11

<400> 5816
 ctttttgttt cgtctcagtc gtcgtcatca tctctgacag aacaagtttc gagattggat 60
 attgacgaca acgatatggg acttggaggt agtgaaacaa tggaatgcaa gtgtggtatg 120
 cctctgtgta tctgtgtagc tcctcccaaa tcaactgata aaccaaacc acctgctacc 180
 attgctcctg tggttcttcc tcagttgaag tcagaggctt cagcaaaaag taaaggttcc 240
 acttccagca gcaatgctag atcagctcta aatgctggac tagacacccc ccaaagagac 300
 tatgaagcca gtggggaggg attaagagaa gcgattaaga atggtgacag tgctggtgcg 360
 aaaaaacttc taaaaagang gcgtanaatg caagattacc gaagacagg 409

<210> 5817
 <211> 463
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-E8

<400> 5817
 attaacgggn cgaccacgc gtccgaggca aacacgaac ggtttacgta gaccgtcaaa 60
 cgctcctcgc tccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnntctc atcgatcact ctctccaaga tctattcacg catcgctcgga 180
 agaattttcg ctccgacga cgtttctctc gtctgatttt gtctccgaac atcctaccta 240
 atcgatttcg gtgctggatt tgaatccggt gaactgaatc tgacaatttc gttcccggag 300
 gtgtttaaaa atggccggga tcttgaataa attgcggaat ctatgatcat atcctaagat 360
 caatgaagat ttttacagcc gtacattatc cggcggagtt atcactctcc tctcctccgt 420
 tgttatgttc cntctcttcg tctccgagct ccgtctttan ctc 463

<210> 5818
 <211> 460
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-E9

<400> 5818

gaattaacgg gcaaaagaag ccaaaanttc tttttgcaga tgacctacaa aacgaaactt 60
 tagaagctgt cccaaatata ggtgagattc actgatcgat ctctttttt ttttgtcact 120
 tatatccacc aatttgcaaa ctcttatggg ttattcagaa gaagccaaca atgaaagaaa 180
 ggcaccaaca gagataaaga agaatggaga aagtagtgag aagaagagcc cagaactggg 240
 ttgtatggag gaggaacttc aaaagtgggc agctgaatca tttattgatt taactgcttc 300
 tggtgagcct ctccagatctc aaataatatt ggattgattg caatatTTTT gaatttagat 360
 acatacatat atgcaaatgt tttagggttac ataagattcc agttctgcct tgtcataggt 420
 gatcnttgag ttanggtatc agttatggga aacatgtngt 460

<210> 5819
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-F11

<400> 5819

ggncgccgta cagaattacc gggncgaccc acgcgtcanc ccacgcgtcc gcggacgcgt 60
 gggttcaaaa acaaagtcga ttacgctaga atccatgggc acgacatctt ctacagcaat 120
 tctcttcttc atccgaagat gaattcgtat tgggcgaaac ttccgggtggg taaagctgcg 180
 atgcttgctc acccatTTat ggattgaagc tttagagaga aaatgggtga tgaggcagag 240
 atcaaggaac atttaaagcc acaagcttca tctgaaacaa tagacaagaa acataatgtg 300
 aaagggaaga ggttatggca cgaaagtcaa gtatcaattg gtggagtttc attcattgcc 360
 tgcttattta agagacaatg agtacatcat tggtcattac cgattcggaa tggcccgatn 420
 naacagantc ttcnnancat ctttaccatt cntaatggag acntttgagc gttttgga 478

<210> 5820
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-003-Q1-E1-F3

<400> 5820

acgcgtccga ttttttctaa attttaatat tttgtgttnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnggtac 120
 cgtcgatttc ttctacgag ttcgaaatta ggggtttttt cttcttctta gggctgattt 180
 tgaggtcgag tagtgggttc ttaacgaact tattcggtga atttcttttag gggtttcttt 240
 gtggtctagt ttcatagaga gattagaagt ttggttatgc tattgaacga tgtttcatgg 300
 acaagggttt tcgagaaacc gttgtaatgt tgtggcagtt gtttctggag cagagctttg 360
 cgatacta ataccagatag atggaacttc tcatcaaccc aaataccctt ttccagatct 420
 ctcttcttca gggcgtctca agtttcaagt actgaa 456

<210> 5821
 <211> 459
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-003-Q1-E1-A1

<400> 5821

acgcgtccgt agtcatcttc ttcttctctt gtctcaattc ttcttctctt cggatccatt 60
 tttagaggag tctagtttct tacttgaaca tagacatgga atcaactaat aactgacaac 120
 caagaggctg ttcttttcaa atgattggta gtagttatat tatgcttgga cagtgccatg 180
 atgggcatct gtgagatgaa aagctgctgc tcatggcttc ttttgatctc gttgctttgc 240
 tcactatcta atgaaagtca agcgattagt cctgacggcg aggcgcttct gagcttcaga 300
 aatgcagtta ctagatcaga tagtttcatc catcagtgga gaccggaaga tccagatcca 360
 tgtaactgga acggagtgc atgtgatgca aaaacgaaaa gagttataac cttgaatctt 420
 acttatcaca aaataatggg aactttacct cctgatatt 459

<210> 5822

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<211>      450
<212>      DNA
<213>      Arabidopsis thaliana

<223>      unsure at all n locations
<223>      Clone ID: LIB23-001-Q1-E1-H11

<400>      5822
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acgcgctccgc	ccacgcgtcc	gcccacgcgt	ccggtgtatt	caatgagttt	atcgagatta	60
taaattaaat	tgttccccgg	gttttttgat	aataaaaagt	tacacgcttt	tggttaaaaa	120
tccattgcat	tataaaattc	aattatgata	caatgccacg	tacttgacc	acaatgttgc	180
cgtacgttat	attgttgccg	gagtaaggta	cacgtcgtca	cgggtgcagg	ccgtttcttt	240
aaagagttgt	cacgcattta	acggcgcgtg	gtctctacgt	gacactctcc	ttgtttgttg	300
gtgatttggt	cattgattac	agaaccaatc	gtcggtagct	accaataacc	gtacgatggg	360
gtatggcaat	cctcnttggg	attactancg	gntcaaccgg	gtggctccac	tggttacgcc	420
tcaatcaanc	tccgaacgtt	ggtcgaaacc				450

ccacgcgtcc	gcccaatctg	aagatcaatc	ataaccttaa	accatctctc	ataattttag	60
tattttctatt	ctcaccacca	aaactcgttg	atacatcaca	ccccaactgt	tgttactcat	120
gtcctacaga	tcgattttacc	gcactcttcg	accgggtacta	tcatcttcgg	tacaatcctc	180
cggtttagga	attggaggat	tcaggggaca	tctcattagc	cacttgccca	atgttcgggt	240
attgagctct	gacacgtcat	ctccggtaag	tggggaataac	cagccagaaa	atcctatccg	300
aacggccgat	ggtaaagtta	tatccactta	ttgggggtata	cctcctacta	agatnactaa	360
accggacggg	tcagcttgga	agtggaattg	ttttcagcca	tgggattcat	acaaaccgga	420
tgtgtccatt	gatgtaacta	aacatcataa	a			451

607733163660

<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-H4

<400> 5824

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tggttcgccc tgccgtaccg ggaaattanc gggtcgaccc acgcgtccga aaaaaaattt 60
agtagcaaac ttcnegattc cttgattcgt gggaaaaaga aagtctagat tttgtggat 120
tttgattttg tgattccgtg attgtatgaa cttgagccgt tttgcttcga gattaagaat 180
ggcggaagaa atctcaaaga cgaagggtggg atcttcttct actgcttcgg tggctgattc 240
atctgctgct gcgtcggtcg caacgaatgc ggccaaatca agatggaaaa tttgtggcc 300
taattcgctc cggtggattc ctacgtccac cgattacatc atcgccgccg agaaacgtct 360
tctctccatc ctcaagacgc cttatgtaca agagcaagtc agtattgggt cangaccacc 420
aaggttctaa aatcangtgg tttangtcta cgagcaatga gtcacgttac atcaacactg 480
ttacatttga 490
```

<210> 5825
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-H5

<400> 5825

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acgcgtccga gattatctgt atttcaagtt tcatgagcgt ttgccaccac aacattgtct 60
tttcgggggt ttagtcatac ttaatggctt ccaattcgga gaaaaatcct cttctttcag 120
atgagaaaacc caaatcgacg gaggagaata agagttctaa gccggaatca gcttctggga 180
gttcaacttc atcagctatg cctggcttga atttcaatgc ttttgatttc tctaatatgg 240
ctaagtattc tcaacgattc tagcatcaga gaaatggctg agcaaatagc taaagattct 300
gcgtttaacc aattgggctg aacaagcttc aagagatcaa atcctaacgc tggcaagaan 360
gtgggttccc taacttttga ttctcaacan gtatgtcaat acaatgcaac aaggttatgc 420
ataaccnnga gtttaagaca tggccgagaa 450
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<210> 5826
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-H7

<400> 5826

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cagatgtttc ntacaatctt cancagattg cttggaaaag gnaacagcaa atgccacctc 120
aaaggnatta caattctgat caagttggga aatttggagc aaggagatna ngggctgggg 180
ttaacaaagc atcatggtgg tgggtggggg taaaaaggag ctgattccat ggcgagaaat 240
gggcataatt tcaatggcgt taacagtgat cgtgttgagc atcgggagga agctaaagtt 300
ggcaagtgat gttaaggcat tgtcctgttg cagaagagaa agagagatgg taacgaaaaa 360
ccgagggagt gataataaaa gttgagaaaa aatttgaag aatctgaaac tcaagaggag 420
atantgaaag aancataagt gttaactcng ggttccaaaa g 461

<210> 5827
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-H9

<400> 5827

gttgcccttg ntacggctcc ggaatcccag gtcgaccac gcgtccgcga cacactccaa 60
aactcataaa tctatctgat gcgaatttga ctaactcttt cgtaattcag gatcttacta 120
caaactttta actcaccaat cttctttctta ttcaaagatt agagagaaaa tggacaacga 180
gctgtttatg aacacagagt ttccaccacc gccggagatg gcgacgcatt tcgaacacca 240
acagtcttct tcatcggcca tgatgcttaa ttgggcttta atggatccaa atccgcatca 300
agattcttcc tttttatggg aaaagtcaac ggaacaacaa caacaacaaa gcatctttga 360
ctctgcttta agctcattag tctcatcacc gacgccgtca aattccaact tctccggcgg 420
tgggcngtga cgggtttctc atcagagaac tcatngggaa accttggnaa catcggtaaa 480

<210> 5828
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-002-Q1-E1-A1

 <400> 5828

acgcgtccgc ccacgcgtcc gcggaacgct gggaatcaag atgggagtga tgagtttgag 60
 caagacgatg gtggtggtgg tattacaggt gatgatattg ttgggacaag agattggtaa 120
 agtgtcgtcg actctataca aagttgggga cttggacgct tggggcatcc caattgatgc 180
 taaagtctat tccaaatggc ccaaattctca ctctttcaag atcgggtgact ccctcttggt 240
 cttgtacca ccaagcgaag actcactgat tcaagtgaag ccctccaatt tcaagagctg 300
 caacacccaa gacccaatct tgtacatgaa cgacggcaac tctctcttca anctcaccca 360
 aaacggaacc ctatactcac aagtgcacaa cccgggcact gtnccaaagt tccaaaagct 420
 cctantctcc gtcggaacct aatcccgcgc aaagcaaaag g 461

<210> 5829
 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-002-Q1-E1-A10

 <400> 5829

acgcgtccga tctatattag tgatggcttg tttttatgta tgtgaagtgc tccgctcccc 60
 tatataggta tgttgaggat gcaaagggtg caagttctac ttgatctat ttttctcgaa 120
 attttcatct acagtcctct tttcattgga gatgtctcta tttctggttc tatgctctgc 180
 attttctat ggtttaaatg ctaatcactt cggctcgaga tctactcttt ctacatgaat 240
 tcattatctt catataggaa ttgggatgat gctaggacga ttctgtttcg acctgttcgc 300
 ctaagattta ttggcaacga gggatggatg taatcagctt ttcttccctt atctgttttc 360
 cctttctggt tatgtaatct gcactctctc ctatggtaat ctctctgctt cagatgaaat 420
 cattaatctt cacat 435

<210> 5830
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-002-Q1-E1-A11

 <400> 5830

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 tgcaaacaaa gacagtgtta agaagaaatc catctctcgc tcttctcgtg ctggtattca 120
 gtttccagtg ggctcgattc atcgtcaact caagcaaaga gtttcagcac atggaagagt 180
 tgggtgccact gctgctgttt aactgcac acacttagaa tacttgactg ctgaagtact 240
 cgagtttagt ggaaatgcga gcaaggatct caaagtgaag agaattacac caagacattt 300
 gcagcttgca atcagaggag atgaggaact tgacactctc atcaaaggaa ccattgcagg 360
 aggagggtg attcctcaca tccacaagtc ccttgtaaac aaagtcacca anggattgan 420
 tttcgtcctt ccgaatccta agtccc 446

<210> 5831
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-002-Q1-E1-A12

 <400> 5831

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 ctacgcactc cttctattgc cctacgcagc actggctctt ctctcgaac ctccgtttca 120
 ttctccgtca aggctcaatc cgtcgcgctt tcacaggacg atttgaagaa gtcgcggcg 180
 gagaaagctg tggaggcaat taaacctggg atggttctag ggctcggaac cggatccacc 240
 gcagctttcg ctgttgatca gatcgggaaa ctactctctt ccggtgaact ctacgatatt 300
 gtcggtatcc caacgtcgaa acgaacggag gaacaagcac ggtcgttagg gattcctctt 360
 gttgggttaa atacacatcg anaatcgatn tcgcctaatt gacgggagca aaacgaagga 420
 ctcccgggtg gaagttnngt taaac 445

5832-438-5833

<210> 5832
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-002-Q1-E1-A8

<400> 5832...

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ctcgtcaagc tttaccggtt tttggtgagg agatctaaca gcaacttcaa tgctgtgatt 120
ctgaaaaggc ttttcatgag caaagtcaac aaagctcctc tttcactctc taggcttgta 180
gagttcatga ctggcaagga tgacaagatt gctgtgttgg ttggaactat cactgatgat 240
ttgagagttc aagangattc ctgccatgaa ngntactggc cttgaagggtt actgagaagg 300
gctaaggcta agaattnana aanctgggtg gagaatgcta aactttnacc aacttgcccc 360
caaanctncc atngggaaaa gannnaattt ttcttaangg ggccaaanaa nccccnctgn 420
ancaattgan ncatttttcgg acccnggccc cgggg 455

<210> 5833
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-002-Q1-E1-B10

<400> 5833

acgcgtccgc gcnattttct gtttgcatac acttgatat atttatatta acagtccaaa 60
attcttcgaa attgtcccg gctttgagca tataaaaaat gtcttcgata atccatggag 120
ctggagctgc tacgacgacg ttatcgacgt ttaattccgt cgattccaag aaactcttcg 180
ttgctccttc tcgcacaaat ctttcagtga ggagccagag atatatagtg gctggatctg 240
atgcgagtaa gaagagcttt ggttctggac ttagagttcg tcaactctcag aaattgattc 300
caaatgctgt tgcgacgaag gaggcggata cgtctgcgag cactgggaca tgaactattg 360
cttttcgagg ctctcagga aggtctggaa agaagagatg gncaagaaga ttcacatgta 420
agtgttaagg gtgaaaaa 438

<210> 5836
 <211> 493
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-001-Q1-E1-H10

 <400> 5836

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 tgaagagctc ttttgggagg atagtaaggt tggatgatga gagggagatc tgatggaggc 180
 ctaaagaagc gtcttattgc ttcgggtctgt gtcgtggctc tattcgtctg tttcttgttt 240
 atgtactatg gttcctctag ccaaggtgca tcagcattgg aatatggaag atctttgaga 300
 aaactcggat cgtcttantt gagtggagat gatgataatg gtgataccaa acaggatgat 360
 tctgtggcta atgcagaaga cagtctgtt gtcgccaaaa gttttccctg tttgtgatga 420
 ccggcactcg gaaatcatcc ccttgcntan ataggaattt caaccaacaa aatgaagggtt 480
 gaaancttga ttc 493

<210> 5837
 <211> 488
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-001-Q1-E1-E9

 <400> 5837

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 ccgtcgaaat atggagtggg tggttatgga gaaagcactg gaagagtgga gaagtttgtg 120
 gaaaagccaa aactgtatgt aggtacaag atcaacgctg ggatttatct tctgaaccca 180
 tctgttcttg ataagattga gctaagaccg acttcaatcg aaaaagagac tttccctaag 240
 attgcagcag cgcaagggct ctatgctatg gtgctaccag ggttttggat ggacattggg 300
 caaccccgctg actacataac gggtttgaga ctctacttag actcccttag gaagaaatct 360
 cctgccaaat taaccagtgg gccacacata gttggggaat gttcttgttg acgaaaccgc 420

tacaatttgg ggaangattg tttgatttgg accaagacgt tgccattggt nccaagctgc 480
attgttta 488

<210> 5838
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-F1

<400> 5838

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tctgattcgt caaatccatg gaagatgagg atgatccaac cacaagaac agcaacaaca 120
cagatgattt tgctatagag cctcgtgaag ggattatatt tgaatccgag gatgcagcta 180
agatgttcta tgatgattac tctagacgat tagggtttgt aatgcgtgta atgtcttgcc 240
gaagatccga gaaagacgga agaattcttg cccggagatt cggttgtaac aaagaaggtc 300
attgtgttag tattcgtggt aagtttggat cagttaggaa acctagaccg agtacaagag 360
aaggttgcaa agctatgatt catgttaagt atgaccggtc tggcaaattg gtcattacca 420
aattcgtcaa agaacataac catccactcg ttgtttcacc tcgcgaggct cgccataccc 480
tggacgag 488

<210> 5839
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-F10

<400> 5839

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tctttcttca gttcttcaca actctcgatt tcgtccctt ccttgctcat tgcgtcaaga 120
caatgtcgct tccgattctg atttcattcc caaagactcc gcttttgagg ttacggattc 180
agctgagagt aatagattgg tttccgatac ggagggttgc gaattagaga cgaatgatag 240
atttgtgggt ggtgaggaga cgaaaagtgg aggagaagaa gcggagggtta gtaatggagt 300

aacggaaggt aaggaggaag atcagaagaa gagcaagttt aggattgtgg tgttgatgat 360
ggcactatgg gcggctataa agagagtata gagaaggtaa tggagtgggg aatgggntaa 420
actggtgggc tttctctcgc caaggaagaa acggnntccaa gaaacttaat gcctggaagg 480
ctggatgcca aa 492

<210> 5840
<211> 448
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-F6
<400> 5840

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gttgaacaag ccategattc gggctaattgt gtatagtttg attcgtctgg ggagcttttg 120
agagatagca atttagtttt cgcgttacga atgatctttt tctgatgcgt cattttgatt 180
aagtgtgtac ttctgcaatg gaggcttctc tagctgttat acagaggcct caagctggag 240
cttcgaatac ggtttataag agtggccctc tcttcatac atcaaaagga ctaagttgga 300
catcctggaa naagcggttg gttaacccta acccgaactt tctttggcct ttttcaaaaa 360
tgatccaagt gcattaacaa caaaaaggga aggtnaatta aatttgaccc ttgganggaa 420
ttgacttgaa cagttcgggg aatgcctg 448

<210> 5841
<211> 446
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-F8
<400> 5841

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agatttggtg tcccgagca agttgttgtt atggattcga gcgtcttgag cgggtggagga 120
gctttagggg agcttaagtt tccggtgatt gctaagccgt tggatgctga tgggagtgct 180
aaatctcata agatgttttt gatattatgat caagaaggga tgaagatttt gaaagctcct 240

attgtgttgc aggagtttgt gaatcatggg ggtgtgatct ttaaggtcta tgtggttga 300
 gatcatgtca aatgtgtaaa gaagaagatc ttacactgat atctctgaag agaagattgg 360
 gacgtcgaaa ggggtctcttc cgttttcgca natatcgaat ctgactgctc aagangacaa 420
 gaacattgan tatggtgaag gatagg 446

<210> 5842
 <211> 448
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-001-Q1-E1-F9
 <400> 5842

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 cgtctttctc cgatgctcaa cttacccta ctttttacga cacttcatgt cctaccgtca 180
 ccaacattgt aagagatacc attgtcaacg agctaagatc ggaccctcgt atcgccggga 240
 gcatccttcg tcttcacttc catgactgct ttgttaatgg ttgtgatgct tcgatcttgt 300
 taagacaaca cgacatcatt tcgaacagag aaagatgcac ttggaaatgc aaattcagcc 360
 cgagggattt ccaagtgatt gatagaatga aagctgcngt gggagaaggc atgcccaga 420
 aaccgtttca tgcgcaagat atgctcaa 448

<210> 5843
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-001-Q1-E1-G2
 <400> 5843

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 ttttagtgga ggagttgaag tacagacctt ttctatgtat agcttcctt ggatgacaag 180
 acctcatatc tatggactag cttacaacta aaactatcat ctttattcaa ttacactaaa 240

cctccgcggt cctttcgagc attacaagaa gacgatccgt accaatcacc gttegttcga 300
 gaaagaggtc tcaaccattg ttaacggcgt cggagaattg gctgattccg attgggtctaa 360
 agacgatacc gtttcgcgtc ttacttgccct tgttactcga ttacaaggcc tcaaacgaaa 420
 gttggaagaa gggagcaatg tggaga 446

<210> 5846
 <211> 447
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-001-Q1-E1-G7
 <400> 5846

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 gtccttctcc cgggattata actgaagctt cacctcgaag cagcgggtct ttcctgcag 180
 taaccaatgc aaagaagaga agaccacctt tagtcctcc tgtaccttct cctgataagg 240
 gcagtactag tctgatata tctaagaatc agccacaaga taataaacag tcaaaaggat 300
 caaaacatgt atggctgtat gtggttatcg cggttgcttc tttcgtcggg ttactgatta 360
 tagtagcggg tatcttcttc tgccggaaaa gagctgtcaa gagcataagt ccttggtgaaa 420
 ctggtcctag tggacaattg caagaaa 447

<210> 5847
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-001-Q1-E1-G8
 <400> 5847

acgcgtccgg gcaacgattg taagcagagg gaaggcgaag aattatgata acctctcatc 60
 aacgataaga caaaatccat aaactagtaa tatcatccaa tcctctcact tcttccttat 120
 tccctcactt tcaactctcac tatctgttga cttcacatgg cttccaccgc cgcaactgca 180
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tttggacaca ttccctccac atctgtctcc gcacgtcgcc ttggcttctc cgccgtcggt 300
gactctcggt tctcggtcca cgtggcgctc aagggtccact ccgtgcgcgg aaagggcgcc 360
aggggagtgga ttacgatggc gaagaagagt gttggagatc tgaattctgt agatttgaag 420
gggaagaagg tgtttggtan agctga 446

<210> 5848
<211> 493
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-G9
<400> 5848

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ttttttcttg gcttctgagc ttttggcggg ggtgggtttt tctggagaaa cccaaacgac 180
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gttacaagta tgaaggagtt gaagattcga agaagcgggt ttgaagtcgg ngagaccaag 300
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ttagggtttt taagatttgg ttggtgaatg ggggtgggaan gtggaaggga aacaagttaa 420
aaaaanagtt tggcttttaa gtgtctcctt ccttcaatna anttncattt ggggcaatct 480
tgaaatcctt ggg 493

<210> 5849
<211> 451
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-001-Q1-E1-H1
<400> 5849

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tttttctccg gatcttcagc tctgaggatt tttaaagctt ttaagcgctt attggagttc 180

gtatgagcaa acgtgagtct tgtctgctg aaaaatcttc tcttggttg gttctgaaat 240
 gtgactgaaa gtattggttt taggcagatt ttgattcttc aatttttttt cgtaaagagg 300
 gtttcgtgta tcaagacaac atctgaacag agaaaagtat ttatcttttc tgttggttac 360
 tacaagaatt ggtgggattt tattgcaaaa ngtcaataaa tggcaagacc aaagctctgt 420
 tgatgggatt ttagagtttc cttaagaata a 451

<210> 5850
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-001-Q1-E1-E5
 <400> 5850

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnng ccactcacga acactcctca 120
 gtaaccagag agagaagaag aagaacaaca agccatgtct taactcttaa ctaatctctt 180
 cttctccctc catttcacca accaaaaacc ctaaaatcct taaaatcaca agtttcttca 240
 gcaatgatgc ttcaaagaag ctgcattgta cttttcttct ctctttttct gttggttnca 300
 caaatggttt tctcgatgct caacaagaac tcttcttctc ataccacatc ctgacccgga 360
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 agacacgacg ggaccaaggc cggttcgacc ccg 453

<210> 5851
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-001-Q1-E1-B5
 <400> 5851

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 gagtcgtttc aattcatgga tgatggtact cctaagaagc taaacatatt acctgatcac 180

tttagtgctc ctagtcccac agcagaatct tctcagcacg atactccatc atcttcgcag 240
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 agagcagcaa ctatgttgaa tttgttcact ctccgcgcgc tgccttgggt ttcagatggt 360
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 atggaaagaa agagaagctt acctcaaagc ccan 454

<210> 5852
 <211> 447
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-001-Q1-E1-B6
 <400> 5852

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 aatgacgacg acttctgttt gcccggttctc gaaagctgct cgtcctgacg atgggtcgac 180
 tcgaaaacaa ggcgaaatta ccgcttcttg ttgtcctttt tctaaagctg ctcggtccga 240
 cgatgcctct gctcgaaagc aaggggaaac gacggcttct gggtgccctt tttctaaatc 300
 tgctccgtcc tgacgaaaat gggagtaaag gatgtcctga acaagaagga aacttgaata 360
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 cattcaagct tgggcctttt agctgta 447

<210> 5853
 <211> 483
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-001-Q1-E1-C10
 <400> 5853

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 aatcagttga aaacacaccc aaattcatct tcgaatcaat aatggatata agtaatgagg 180
 ctagtgtcga tcccttttgc attggaccat catctatcat gggtcgaacc attgctttca 240

gagtcttggt ctgtagatca atgtcacagc ttaggcgtga tctctttcgg ttcttggtgc 300
 attggtttct tagatttaag ctgaccgttt caccgtttgt gtcgtgggtt catcctcgga 360
 accctcaagg gatTTtaagc ggtgggttaca atcattgcct ttgtgttgaa acgatacacg 420
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 agatgttctt cttacaggca tcaacagtta cagagcatca ctaaactaa caaccttaat 180
 acacaaccac aacgcagaat gtctagcaga cgaaatcgca gaccaattca agaaccaacc 240
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 tgcctaacct cctctcaaaa tgccgctca accctaccgt aactagagac ggtgcgattt 360
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 <212> DNA
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 ggcgacggcg gcgaagggtg ctggaatcgg agttggtaaa ggaggattca agggatttgg 180

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 tatgcagaga ccgggttggg atgattggga atttgctgaa gaagaaccga ttcctagggt 360
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 aaaagtgtat gtaggacaag atatcaatcg tatcacttac gtcaaattcg agtatgtgaa 180

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 tctatgtgcc acagagggtga tcacaaacct cgtcttcaag acctcaaagg gtagaaagtc 360
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 atggaggaaa agaaaat 437

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 ntgttgctgc tactactcag gatcctagtt cctccggttc tcatgtctcc gtggatacgt 360
 gtaaagagcc taagttttac tgggacttct agagatgaac tgtttgggtc aactctttgg 420
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 ggcaggcctg tgtatattga aaggcttggg aaagttgatc ctaacaaact gatgcaagtt 180

actacgcttg atcgatatat tagagatcat gttaaggagt tcgagaggag ttttatgctc 240
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gacgtccaag gagggggact gaagaacttc acaaagtctg ctctgtgagct tattacaagg 360
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gcanggcccg gattccgtct gctttgggag 450

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tgtcccgctc cgattgcatg gggtttgagc tatgccggag ctccgccgtg gaggccgccg 240
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accgaagaag agtaccgtta aagctccaaa accgggtgac ggccggagta caggagagtt 360
gcaagagagg gccgaaggac taagattaac gggcgaagaa aatttaaagg gaggaagat 420
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<210> 5861
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<212> DNA
<213> Arabidopsis thaliana
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gaacaacagc tcgtcgattg tgatcacgag tgtgatccag aagaggaagg ttcatgtgat 180
tctgggtgta acgggtgggt tatgaacagt gcctttgaat acacgcttaa aaccggaggg 240

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<212> DNA
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gatcttcatt tatatataaa agcgtgaatg agattatgat ggagtcgaaa ggtggtaaaa 240
agaattccag cagtagtatt tccatatttt acgaatctcc cctcgggttac aacattgaag 300
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<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB23-028-Q1-E1-G10
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gtccagcagt agtagttcct tattttacga agctcccctc ggttacagca ttgaagacgt 300
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gccatcctg 369

<210> 5873
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 <212> DNA
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<223> Clone ID: LIB23-048-Q1-E1-D7

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<210> 5874
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 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-038-Q1-E1-D5

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 aagaggcatc ctga 374

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<223> Clone ID: LIB23-023-Q1-E1-G5

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tcatttatat ataaaagcgt gaatgagatt atgatggagt cgaaagggtg taaaaagaag 240
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cgtccaaacg gtggaatcaa gaaattcaga tcttctgtct actcaaactg ctccaagaag 360
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<211> 403

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-013-Q1-E1-C7

<400> 5876

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tcgatcttca tttatatata aaagcgtgaa tgagattatg atggagtcga aagggtggtta 240
aaagaagtcc agcagtagta gttccttatt ttacgaagct cccctcggtt acagcattga 300
agacgttcgt ccaaacgggtg gaatcaagaa attcaaactt tctgtctact caaactgctc 360
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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-063-Q1-E1-B10

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 gcattgaaga cgttcgtcca aacgggtggaa tcaagaaatt caaatcttct gtctactcaa 360
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 <223> Clone ID: LIB23-020-Q1-E1-D12

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cactaccgct gcgaaagttg actatgagaa gattgttaga tccacttgca gggagattgg 360
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<212> DNA
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gatattcTga gaaaagggtt tctggaaaca aagagttcat aattcgcgat cttgatctat 180
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aaaga 245

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 <212> DNA
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 <223> Clone ID: LIB23-055-Q1-E1-C11

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<213> Arabidopsis thaliana
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 <212> DNA
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<210> 5887
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 <212> DNA
 <213> Arabidopsis thaliana
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<210> 5888
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<210> 5890
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 <400> 5890

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<223> Clone ID: LIB23-043-Q1-E1-G1

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<212> DNA
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<223> Clone ID: LIB23-010-Q1-E2-G11

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<212> DNA

<213> Arabidopsis thaliana

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<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-043-Q1-E1-E8

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tcgcttacgg ctctgtccgg tgggtggaaa tcttctcacc cgaccaatgc tccggaatca 240
accgttttgt cgccatcttc gccgtccctc tctctctttt tcaattcatc tccaccaaca 300
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ttgtcacttt aagcccaatg ggntaaatc aaccgctcn ggaacctcca aatggagcaa 420
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<210> 5925
 <211> 512
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-H3

 <400> 5925

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ncgcttaaac ccattaatc aatttcttca tagccagcaa taagatctgg caaattaaac 120
cattccacta tgcttcgtat agttcaaate acgcttcttt gtttcgttct cgccgccggg 180
atctcgatct ccgccgtgat cgccgagaat gaatctatag acgagatcct tctagcgaat 240
ggattacctt tggggctatt tctaaaggc gtgaaaggat ttaccgttaa tggcgaaacg 300
ggacggttct cggtttatct gaatcagtc tgccaggcta agtatgagac agagctgcat 360
tacgatgaga ttgtttcggg aacgataggt tatgctcaaa tcanggattt atcggggaatc 420
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<210> 5926
<211> 533
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-025-Q1-E1-H4

<400> 5926

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taaacaagtt ggatgggact cggcaaaaag tatttcttct catcccaacc aatttaggct 120
ctatgttatt gttatatggt tacagttatt gttacttttc atggcgtgta tctgacacat 180
ccatcatgaa aattgcaggt acttcatctt atgattgctt cttcaaacac tggttctgtt 240
atttatttcg tggctgcggt tatagcgact tgcacaaggt ggcatcattg ggtccaacgc 300
attaggtttt ctactcatgg cctttcccaa aaattctgtt tcttggcaaa ctttctctcn 360
gcttccnct ttcngggtaa aaagntttgc aaccagggaa aatgggnaag gagggatnat 420
gatgaagatg aaagaaaatt ancatccaac aaantgttgc cttgaaaaaa gcaangnnca 480
anccangttc ttcnaangca antggttctt aaaaatgggt ggccccttcc aag 533

<210> 5927
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-026-Q1-E1-A10

<400> 5927

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acccgcaagg tagtggcccc tcgggagctc cgactccaca agccggagga gtggtagtgg 180
atccaaagta ctgcgtctct taccctatag atatggcgat cgtacngaag atgatgtcgt 240
taacggacgg caatttcgtg ataacggacg tcnacggcaa cctgctgttc aangtgaaag 300
aaccggtgtt ttggncccca cgacaaaaag ggtcttgccg gatgggtctg gtaatcccg 360

tcctcacttt ganaggaaan atggtggnca tgcattgacan gtgggaantg tttaaaagga 420
 gggattacgg ttancg 436

<210> 5928
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-A11
 <400> 5928

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 atttcttgca atccttataa acaaagagcg tggagaatcg tttcagagga aagaaaacta 120
 aaaatggcga ctcttttcaa caaatctcag caggctgttg gagttcttgc caagagtacc 180
 acatttgcta agaaccacaag gcaactgcag tttgaagcag acgttaacaa actctttatg 240
 tatacaagct ataaccgggtt gggacgagaa gctgaggaga ctgatgcaga ggaagatnat 300
 tgagatggct ggtaaagcca ctttatctga gcaacaagaa ngcaaagttc aagagaacat 360
 tcactagcaa gttgaaaaat tccgctcctt tgatgggatg ggnatccttc cgtccctgat 420
 gttangaagg acgaatccgg ggtcacaatc aacaagccct cgttctcccn cgt 473

<210> 5929
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-026-Q1-E1-A2
 <400> 5929

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 ctcaagtgtc ccagaagctt ccgtcctcca gcaacagcaa gttcacttac aactgcgac 180
 accatacctt caatttcctt gtcgaagatg gctacgcata ttgtgttggtg gcgaaagatt 240
 ctcttagcaa gcaaattctcg atcgcatctt tggagcgtgt gaaagctgat ttcaagaaga 300
 gatatggagg tggaaaagca agtacagcta tcgccaaaag tctcaacaag gagttcgggc 360

gggtggaaga ttaccgatc gaatccaaga tgcttactaa agctctagat gaagctcaga 240
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 tcaatagcca angagatcgt gtttatacag ananaaggcg tgcnccttggt tcgganancc 360
 ttgacccccg gattaccgan taggctnant tganaanggt tgacattcta aggnnaaatt 420
 tgggcccana tncccaagg gaaaccggga ttttgaaanc cca 463

<210> 5936
 <211> 503
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-D8

<400> 5936

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 gcaacagcaa ccaagtgcac gtctctaaac ccatctcctc cttaaactcca aaaccaaacc 180
 aaatccaaac cattcatctc cctaccaacc ccaccaaacc caaacgtctc tctcgccgtc 240
 acaagcaccg ccctagccgg agccgtcttc tcttccctca gctactctga gccagcttta 300
 gccatccaac agatcgctca gctcgctgca ngcanacgcc agtagcgaca acngtggctt 360
 agctcttctc ctcccatcg tcccaancca ttgcatgggt cctttanaac atcctccang 420
 ccagctatta ancaaggcca acangntgcg tgagagtaaa ggtatcgntg ttggtctagg 480
 tantggtggt ggtcntgcag ggt 503

<210> 5937
 <211> 504
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-D9

<400> 5937

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tgtcaaaggc actggttgcac ctggttttcac taccaactca aatggagagg tcaactgaggt 180
gaaattgaaa gacggaagaa cgttagaagc tgatattgtg atagtgggtg tcggtggtag 240
accaattata tcaactcttca aagatcaagt tgaagaagag aagggtgggt tgaagactga 300
tgggtttcttc aaaacaagcc ttccagatgt atacgccatt ggtgatgtag ccaccttccc 360
aatgaaactc tacaatgaaa tgagacgcgt tgaacacgtt gaccatgctc gcaaataccgc 420
tgaacaagcc gtaaaggcaa tcaaggcggc tgangaaagg aactcaattc cggaatatga 480
ctatcttcca tactttactc ccga 504

<210> 5938
<211> 465
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-025-Q1-E1-E1
<400> 5938

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gatcattoga ctctcattag tactgctact tgcattctgag tttatgaatt gggacaatgg 120
atctgcagat tgtgtgtgat ctgatgaaac cattgttgtg tttttttgtt tcatctcaag 180
aaactagcta aagagatctg ttactgcatt atctattgat gttgtctatt tatgtgtgtt 240
tcaggtgatt taagacaaca tcaatagata atgcagtaac agatctcttt agctattgat 300
gttgtctatt tatgtgtgtt tcaggtgatt taagacattt cctcgatgat ttgtgatcca 360
actcngtttc tcttttgntg ttgtactcnc atgttccac ttntgtccca agtgtaact 420
cagaanttta cncncagtn anaaaaaaaa aaaangggcg ggccg 465

<210> 5939
<211> 529
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-025-Q1-E1-E10
<400> 5939

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actgagaaga aattggaact taaagacggt aaaggaggaa aacttgtggg attccatggg 120
aaagctagtg atgttcttta tgctcttggc gcttatttcg ctccaacaac aaattcaact 180
acgccatcga ctcttcttac atctaagaaa ctacaagcaa gaggtggaaa tggaggagct 240
tcttgggatg atgggtgttt tgatggtgtt agaaagatac ttgtacgtca aggaaacgat 300
ggtgtagctt tcgttacgtt tgagtacaac aaaagctctc aagcaatcct ccgtgatcgt 360
catgggaaag caaacattac ctgggnactg aaaacgtttt gngcttgant aaccaagtga 420
gtacatcact tcggtagaaa gggtagcaat gacaaaaatt ttcgnggttt gaaacctgaa 480
antggtgacc antcctaacg ttccaaagaa ctaaccaaga gaaacntct 529

<210> 5940
<211> 459
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-025-Q1-E1-E11
<400> 5940

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ctggtttggg cttatcggaa gcaactcttc cttctcgtcc tgacctggtt ctgagtggta 180
taaacgtggg tagcaactgc gggtataaca tcgtctatcc tggaactggt gctggcgctc 240
gtgaagcctt cttttatgat gtgccttctg cctccatata atatgatttt gattggaaac 300
gtggagagat gaatgctaata gattttgccc tttctgccc ancctgcttg ccattatca 360
acggcatact cggtgcaatc aagaacaaaa ctancctat gcaatgcttt ctgaatatcg 420
atttgccgac tgatattgct aaccacaagg gatacaaac 459

<210> 5941
<211> 472
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-025-Q1-E1-E2
<400> 5941

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 gctatacgga aaatgtctgc ggatgttttg cagcgtcaac cccttgcgta tatttctagg 180
 tccaaggaat acaatatcca gccaaaacca gttctctcgg ccttttgagtt cagggcactt 240
 gcaatgacta cagtgagatc ccttttgatg ttttatttgc ctcttttgga gcctaaaacg 300
 gnttcagagg atgatgatga tttcctaaac aatgctgcag aagaaaaccg ccacacagac 360
 ttgattgttc ctcttaaana gtcagcaaag catgattgcc cgtgaaacca nanttgnaac 420
 cactcagnca ntccttgga ggctgggact naagttactc ncacaacgta ag 472

<210> 5942
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-E8
 <400> 5942

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 cgatatcttc ggtagtttat tcgagatcac atctaagtat cgtcctccga ttataccaat 180
 tggctcgtgga gcttatggaa tcgtttgctc tgtgttggn acngagaaca acgaacctan 240
 taccatgaag aagatagcta atgcttttga taatcatatg gatgctaaac gtacgcctcg 300
 tgagattaag cttntcgtc atcctgatca tgaaaacatt atagctatta gaaatgttgt 360
 tcaccaacac taagaagaca atttnatggn gtttaaaacc cacngaatta aggggaacng 420
 tttncacaa tcatcaagat ttaancagag tt 452

<210> 5943
 <211> 463
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-025-Q1-E1-F11
 <400> 5943

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 ggtccaaaga agcttcccat catcggaac ttacaccaac gcaggacact acatccgagg 180
 aatcgccgta atctcgccga aatgtatgga ccagtggcgc ttctccaata cggattcgtc 240
 cccgtggtcg cgatctcttc gaaagaagca gcagaggaag tgctaaagat caacgatctt 300
 gagtgttgta gtcgaccaag aggcggccgg aatgagagca actttttaca acttcaaaga 360
 catcggggat ggcacccttc ggtgacgagt ggagtctgat gcggaagctc tcggtggtcg 420
 agctcttcag cgtgaaaaag cttcaatctt tcaagtatat cat 463

<210> 5944
 <211> 504
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-F12
 <400> 5944

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 agcattctcc aaagcttctt cttttttctt caacgatcgt cattgcattg taatttgag 180
 agtttagcta caaagtctgt cttcatcgaa ttaagatcta tctgattttt ctgggtggnt 240
 ctcatgtgtg agatttttga tgggtttaga gttgtcggat atggaangtc ttcttatctt 300
 tgatttgtnt tataaattaa gcggaanaaa ttttganggt gactttgagc cgaaaaacct 360
 ggattccttc caaggaagta attaatggc cctgangaan tccctgttt ttgccgncaa 420
 attttcaatt ttcngagtg gtaataaatt tagaatchat aatgcagcaa gatananaga 480
 aantgtgtta atcngaagaa gacc 504

<210> 5945
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-F2

<400> 5945

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tcgagagctc agatctccga tctagagcct ttcgcttctc ctcttctggt catataacaa 120

ctgaataatg tcgatctccg cccaaaatcc ggatatttcc ggcgatagac aatccggcca 180

agatgttcgt actcagaacg tgatggcttg tcaagctggt tctaatttg ttaagacctc 240

acttgggtccc gtcggcctcg acaagatggt ggtggatgat attggatgat tgactattac 300

aaatgatggt gctactattc ttangatggt ggaggtcgag caccctgctg ctaaggttct 360

tgtcgagtta gctgaacttc aagatagaga agtcggtgat gggactacat ccgttggttaa 420

tggtanctgc tgaattgttg aagaaggcaa atgatttggc aggaacaaaa tacatccaac 480

a 481

<210> 5946

<211> 506

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-025-Q1-E1-D2

<400> 5946

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actaattcca catactcaga gagaaatggc aaccgaaacc gtattagcca cggcgggtgag 120

caatggcaaa agcaaaggat gttgcaagtc cgggtccaggt tacgcgacgc ctctcgccgc 180

catggccggt ccacgggaaa agtcatctta tgtcactgcc ctttactccg gaacggggcg 240

agacaaaccg gactacttgg caacggtgga tgtggatcca agtccacca cattttcaag 300

cgtcattcac agactaaaaa tgccatatat aggagatgag cttcaccaca ctggttgaa 360

ctcttgacgc tcttgccatg gtgatgcttc tgctgataga cgttaccttg tcttacaagc 420

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ggttttaagc ctaggnaatt ccgaaa 506

<210> 5947

<211> 540

<212> DNA

<213> Arabidopsis thaliana

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-B8

 <400> 5949

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 tcgtccgtaa ggtgatgaag ataacggacg gtaacttcgt gataacgagt gcggacggta 180
 agttattgtt caaggatgaan gatcctttgt ttagtcttca cggcaagang atcttgctgg 240
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 ggcaagtgtt tagaggangg agtacggang anggtgctct actatacacg gtgaaaagat 360
 cgtccatgat tcanctaacc cctaaacttn aggtgttttt ggctaacaac gtanaggana 420
 agatatgtga tttcaaagtc aaaggggcct ggctcgacna cccttg 466

<210> 5950
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-C1

 <400> 5950

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 acttttccaa gcactcgact tcagcgtctt ctcatattc acttaagttt gctttgagac 180
 gtcaggagga taaacccaaa gtctcgtttt ttcttccatt aacgtcttcg ttaatggcga 240
 cccctattca agcctcttct tcctccacca ttggtgagac cagtgatggc ttgaagggtc 300
 agtctcatgt ttcaattgga gcaaacgacg tgctgattgt tggaccgggt gttcttggac 360
 gcttagttgc agaacagtgg agacaggaac atccagagtc tcaaactctg ggcagacagt 420
 aacaacaaat catcaagggg aanttgngg aattgggtat caaaccatcn cctaaa 476

<210> 5951
 <211> 479

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-C10

 <400> 5951

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 gttgtctttc ctctctttcc tctcctgtat cgcacgccat cgtgccttc aaatcctctg 180
 aagacacttt cctctccgtc tggaattgca atcacgacga tgacaataac acagagtgcg 240
 agtgcttggg gaaaatatca atggctgacg tcatctgcc a ttgtccaaa gaccatgacc 300
 acagtctctg tgccttaaaa ctcatccgtc tctgttcttc tccccaaaac tcgttccatt 360
 gtcctccatg ttcaaccaat cctgcaagtt ccttaatcct tccaaaactc ccctccnggt 420
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<210> 5952
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-C11

 <400> 5952

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 aagaagataa aagaaatcct tcaaaaagca gatgctgcag ggacaacttc tgatctctat 120
 atggcttaca aagggcctga ggaaaagaaa gagagctcaa atgttggttca tgatgtttcg 180
 aaccagaacc tgttacctgc catacctcag gctgttgaag ccattgtgga tactgaacca 240
 gtgaaaaatg aaccagaaga ctgggaagat gcagccgatg tttctacacc aaagctggaa 300
 actgcagata attctgtgaa tgcaaagaga ggcttctcag atgaggtcag cgacaactgc 360
 atcaatacag aaaagaagta ctcccgggat ttcctcccta aaattttgca agantgtgt 420
 tactggctcc ttcctgaag ggaatttgac gttttcncct gataattgcc aa 472

<210> 5953
 <211> 660

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-C12

 <400> 5953

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 acggcgntcc gggcaaaaac aaaaggggaa agaaaggaaa tcaaagaatg ggctctgggg 120
 aaaaatcctg gtggttgga aaaagctggc ctggtttggg gtggctccct ggattcaatc 180
 ctcgggcgga actggtcccg gtttcaaagc ccaaacgggg gcctcctttc tccaacaact 240
 ccgaaaggga agaaagaagt cttttaaccc taacaaaaat cccatctgga ttaaaccctt 300
 ctctggaac aaaaaccccc aagttggggt tctttgggac atttaagtcc cttcaaaggg 360
 gaaaagttac caagttgcnt taangattcg aacgaacaan gttgggttga actggatttc 420
 ccgaacgtnc atccgtttgg gtaataactc cnaaggagga anttatccct gattcaacca 480
 antcaaagaa ctccctggct gaaattttgc ccnccggttt gggttcaaca atttttgggn 540
 acttttgggg aaattcttng aagagcaaan ggntccaatg acggtttgaa aaanccttgg 600
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<210> 5954
 <211> 530
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-C2

 <400> 5954

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 agagtttagg aaaaaagctg aagaagcaaa gagaagagaa gagggccttg aaaacgattt 180
 agccaacatg tgggtgcttg ttgccaagtt gaagaaagcc aatagtggcg ctttgtcaat 240
 acaaaagagt gacgaagcag agcctgcaaa ggaagatgaa gtgacagagt tagataataa 300
 gaatgaacaa aatgcaatct tgaaagagag gcaactcgtg aatggacatg aagaagtaat 360
 agttgccaag gctgaagaga caccaaagga ggaacctctt gttgctcgtc ttaaggcaag 420

aatgcaagag atgaaagaga aagagatgaa atctcangcg gctgcaacag ctaatgctga 480
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<210> 5955
 <211> 469
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-C3

<400> 5955

acgcgtccgt tcttcttctc ttgatcacca ttgctattgc atatgctgca actcctgccc 60
 aaccagtatt tccatctgca ttttaacgcag aagtctccag atatagagga ggacaaagac 120
 cagttaaagg tgaatggtac tatagcggtg ctctcaatgc tgaaagattt gattttgata 180
 tgattgatca caatgaccaa cctgttcatg aagcatttta tgcacttcat aatgaatcaa 240
 ctggatattt gatgaccact gctggaggta gcttctcatg cagaaaactt aacattggat 300
 ccaaactttt tgttccatct ctactggat tcacttatac tggattagat gttgtccaac 360
 tcaatatgcc aaccctgca tacaaatgga taaactctaa ccaaactgat gaactcaaag 420
 tatactacaa tcaagtttac tgctcaaat acccngtta gagcaagat 469

<210> 5956
 <211> 480
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-C5

<400> 5956

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 caggcaagtc tatgatcatg gcttcttctg ctgctgcatc gatctctatg ataactctaa 120
 ggaacctctc tcgcaatcat caatctcacc aaagcacttt tctcggtttc tctagatcct 180
 tccataacca aaggatctca tctaacagtc caggtctctc cacacgagca agatccacca 240
 cttcctccac tggagggtttc ttcagaacca tttgcagcaa gcagtagcaa tgactactcc 300
 aagaccaact aagattcaag agcttaacgt ctacgagttc aacgaaggta tcgaaacagt 360

caagcggttt taaaactaag ggaaaaaacc aagatcagcc tttgtctccg agatcttgtc 420

cccttcacaa acaaactcct acacanggag atntcacaaa acgcatagga atcacgcgan 480

<210> 5957

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-025-Q1-E1-D11

<400> 5957

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ggatggccaa accatatgcc tcaatacttt taccggtctc cataccaagg ctatccgtac 120

cctcctatgc aacacatgcc aaatcaaaac caaggaaaca tgccatggcc ttcaaggggc 180

aaaacatcca agaaaaaagg gaagggggat tctgatggag atgagtctag tgaatcaagt 240

gaatctagtg aatctgaatc ggccagcgat gattctgctt catctttgga agatcaaggt 300

aaaagacact ctcgtagaag taaaaactca cgccgatnaa agaaaaaccg gaagaagtca 360

tctaaaactg ttatcatccg taatattaac tatataaccc ggagggaaaa aatggagaca 420

tggaggggaa atgantttac gggacaacgg ttcntccaa 460

<210> 5958

<211> 501

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-025-Q1-E1-D12

<400> 5958

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnntctcatc gatcactctc tccaagatct attcagcat cgtcggaaga attttcgctt 180

ccgacgacgt ttctctcgtc tgattttgtc tccgaacatc ctacctaate gtattcgggtg 240

ctggatttga atccgggtgaa ctgaatctga caatttcggt cccggagggtg tttaaaaaatg 300

gccgggatct tgaataaatt gcggaatcta gatgcatatc ctaagatcaa tgaagatttt 360

acagccgtac attatcccg gggagttatc aactcctctc ctncctncgtt ggттаagttc 420
 cctccccctcc tctctcgaaac tccgtcctta accttcaata caagtcaacg ngacgaaagc 480
 ntaaaaagtag ataccttcaa n 501

<210> 5959
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-025-Q1-E1-B3
 <400> 5959

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 gggaccacca gatgcttccg acacttctc caccagcgtc gcggcggcga atctcctccc 120
 aaacgtcccc ttcgcttctt tctcacgac cgaaaaactc ggacgcgttg ctgattggac 180
 tcgagctctc tcaaattccat cagctcgtcc tcacaccgga tccaaatcag atccatcagc 240
 gatcttcgat ttctcagctt ttgcagtaga tgaaggattt ggtctaacaa actcaggtgg 300
 aaacgcgcgac gaagacgccg ctttccgatt agtcgacgga aaaccaccgc cgcgtcctaa 360
 attcggacct aaatggagat tcaatcaata ccataaccga aatcagcttc ctcaacgtcg 420
 tgatgaagaa gttgaancta agaaacgtga agctgagaaa gtngagctcg t 471

<210> 5960
 <211> 447
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-D12
 <400> 5960

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 aaaaaccaa cagtcctctc cgacctactg gattcgcgtt ttgcttttga tcacatcttc 120
 gtcattgagc ttctcttctt tctcgatccc tgttggtttt ggttggtgtt tttgatgaac 180
 tgatagtgga gatcagagat ctggaaaaca gagccgtgtg ttactgtttt ggattgatgg 240
 aactgaagaa acgttgtag aaagttagg aaactgtgaa naaatgaagt tttacatatc 300

ancgacggggg attaagaagg ttacgatatac aaatcccggc gtcggaatcg gtaaaggaag 360
cggaggatgt gcggctgcaa cggcggcggt agcancgcgg agattctcta atcgcacggt 420
gttactgttg ctgctgctgc acgcaac 447

<210> 5961
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-D2

<400> 5961

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aaaattcattc tcattgatcn aaacttgaaa ccctaatttc gaattctctt gctgatttgg 120
tgagatctca atttcggana gaagatgacg aaggatttcg cagttccacc ttagtatttc 180
ccctccggtg gatcttcagg cgggtgcta atgtccagcaac gaanattccc agcganaccg 240
tttcaaccgc cgcgtccctc ttcttcgcga atccctttca tgcattcga cattggatcc 300
gcagccgcgt cgtccgtac acctgccgga cattcggcgg gacaatcgcn tcgtcttct 360
cttttggtgg aggttcagcn tcgtttgaga anagnagca ttanccaaca anncgnaanc 420
aancaaattn aatctggann aagacaaant gatccatcct ttt 463

<210> 5962
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-D4

<400> 5962

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taacttcctc gtctttggct taggacacga tagcttgatg tgggcatctc tcaatcacgg 120
tggacgcact ttgttcctcg aggaagatga agcttgatt gagacagtaa ctaagaaatt 180
cccaaacttg gaatcctacc acgtcgtata cgacacaaaa gtgaaagatt ccaacaagct 240
tatggagcta aagagaacag aggattgcaa agccgtgtct gatcctagag attccaaatg 300

ccgtgtcact tcnctaataca tacangacgg cgagatntcc ggtcagatcn nccctgaant 300
 cngtgactta ccgtatctta catcncttat cttccgcaaa ctcactatcc tcaactggta 360
 catcaaacc actatggcna agctcaanan cctcantttt ctcagattaa nctgggacaa 420
 tccgaaccgg tcnnggtcct gaatttcnga gtccagctca 460

<210> 5965
 <211> 506
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-D8
 <400> 5965

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 cgtgggaaga aaaccaacaa naatccaact caaaatcnaa gaccgtgaag agcttgaaca 120
 atcccgcaaa tctcaaccat nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnna tagaccana acacaaaaac ccttctcca aatccgaccg 240
 aatcggtctc tottaaaaca ctccatggaa gtcgaagtca agtccgtct cctaaccgcc 300
 gctgctcctc tccgtctcac cactctctc actccatacn anctcaannc ccttcacgaa 360
 ngcaacacct tcttcgacac acccaaanac gacctctctc tcggccgcgc cgtctctcgt 420
 ctncgcttcc ttcaaaacgc cggcggtttc cggcggttn tcttctcgg ngcggttgta 480
 ngtctcgctt aaagcgnagg caaatc 506

<210> 5966
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-D9
 <400> 5966

acgcgtccgt ttggaccgaa aaaaaaaaaa aagaattcat ccccaaatct gcacctctc 60
 tcatcttctt catctcttc aatcttcatt atttataacc tagaacgact gaatctttct 120
 ctctctttat ctccatttct taggtgtgct tatcanagct agaaagttct tacatttaaa 180

tcgccctagt tggagaaagc cgtcggtttc tcattttgaa atttccaagg agatctgaaa 240
 gttttaattt tttggatcga tttcatcggt atcatactcc gatcatcatt tctgttcaag 300
 ggtaaatcgt aaatcggttca tcggggttagt taaagagggt tactgaaagc annatacggt 360
 cttactcggt gtatggagta agaatgccan agttaagaag gtggagcacg tagattgaga 420
 caacctagcc ctcagggtgac nggtcaggcg 450

<210> 5967
 <211> 449
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-E10

<400> 5967

acgcgtccgt ctcagtcttt gactcagact cccaccgct aattccgagc taggtttcca 60
 tttctccggc gaatcggacc tctctctcgc tctctcttcc aatttcccct ttttctgttt 120
 cccagcgtatg atttgcaagt agcttccgct aataatcgca actctctgac ggatgctatg 180
 gcaatgggac ttattcgtct tctttctata gcttttacac ttgttctact ttcaatcctt 240
 cctcttcac tctctctcgc tgatgagata acatctattg aatctgtacc tgaccttcag 300
 aagctaagt atgttgctgt tgatgggttt ccttgtgtac gtcttctcaa tctgtctgga 360
 gagattggat gttcaaaten tagnaataaan aaagtgggtg ctccaatcat aaaattaaan 420
 ggacgttaaa gntttggttc agccacaca 449

<210> 5968
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-E11

<400> 5968

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 tttcctgtga gataaaggcg gagtctctct ccagttattc tgctcatcca tcgattctta 120
 gagttcaaaa tggntgatca agttcagcac cccactattg cgcanaaagc tgccgggcag 180

ttcatgcggtt caagtgtttc caaggacggtt caagtgggtt accatgaggc cttctatgta 240
tcaangacat gcaacctacg gnaactactc caatgcngca tttcaatttc ctccgacatc 300
cgggatgttg gcaacaactg cntctcccgt gtttgtccaa accccaggan agaanggggtt 360
cactaanttt gcccttgant ttctgatggg tggngttctg ctgccgtctc atgactgctg 420
ctgctctatt gaangtgtaa agcttttgat caaaaccang a 461

<210> 5969
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-E12

<400> 5969

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caccgataca taaagacaat agagtggtaa taatttggtg agacaaaaag taattaaaca 120
cattacacat ggggaaaaaag aacggctctt cttcttggtt caccgctgta aagcgagctt 180
tccgatctcc gacgaagaaa gatcatagta atgacgtcga agaagatgaa gaaaaanaana 240
gagagaagag acggtgggtt anaaaaccgg cgactcaaga atctccggtg aagtcttccg 300
gtatctctcn accancacct caggaagatt cacttaacgt aaactcaaaa ccctctccgg 360
agacagcacc gagttacgca actacgacgc cgccatccat cgccggtaaa ccccngtcgc 420
cgtaatcccc atcgccangt cagatctaaa 450

<210> 5970
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-023-Q1-E1-E2

<400> 5970

acgcgtccgc aacaatttac gcagagtacg aagatgtgga tatgaagcgt gattatgcct 60
ttgttgaatt tagtgatcct cgtgatgctg atgacgcaag atattacttg gatggacggg 120
atttcgatgg aagtcgcac actgtggagg catcaagagg ggctcctcgt ggttcgcggg 180

acaatggtag cagaggccca cctcctggtt ctggtcgctg ttttaattgt ggtgtcgatg 240
gccactgggc ccgagactgc acagcaggag actggaagaa taaatgttac cgctgtggtg 300
aaagaggaca cattgagaga aactgcaaaa acagtcctag tccaaagaag gccaaggcaa 360
ggtggaagct attcaagtca ccaatcaa at cccgctcccc tctcgcgga aagagccaaa 420
ccgtacctag ttacagtcaa ggtcgcaact acatccattg cgattccaa 469

<210> 5971
<211> 456
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-E3
<400> 5971

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caatcaaaat gtcgacaaac cctaaccat ggtcaccata cgattcatac aatgattggt 120
ctcaaggaat ctgcaacatc tactgtcttc aatggtgtta nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnct cgtcagctac tacactetca 300
tctcaaaata ctgtcatcgc caccacaaa cctcctcttc aaaaactctt aanctaaatc 360
ataacggtga gggtttctt tctccangc aaagaatctc cacgaatggn tatggnctca 420
attagtccat gantaaatca atcactggtt aagaan 456

<210> 5972
<211> 452
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-E7
<400> 5972

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gcttcagctt cagctggctc tgagatggat gccagagttg aatttgatct aaatgaaggt 120
tttgatggag acgatgcaca acatggggac ncaaataact tctctggatc tgtagttttg 180

acgcctactc ctctacaacc acttaatacc ttaccttttc cggcggctcc tgtatctagt 240
 ggaattcctg catccattac tgttgctgct gccgtcanag gtccgtttgt tccacctgaa 300
 gatctgttga natataaagg ggctgttggn tggagaagat ctgctgccac tantgccttc 360
 cgccnngctg agccangana agctcaggat ntgttactga gcattaacaa tactcnacat 420
 ctgatgcaac caactcctgc tgggaaaaca na 452

<210> 5973
 <211> 447
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB23-023-Q1-E1-D10
 <400> 5973

acgcgtccgg gggttgatca tctcttcgag gtcggttcta gggtttcact acgagaatgg 60
 acggagatga gctcaccgag caggaaactg ctctttatga ccgtcaaatt aggggatggg 120
 gagctggtgc tcaaagaaga ttgagtaa atctcatgtttt ggtatctgga attaagggca 180
 ctgttgctga gttttgtaag aacattgtgt tggcaggagt aggtagtgtg actctgttgg 240
 atgatcgatt gggtacaacg gaagtcttca acgcaaactt cttgattctt cctgatgaaa 300
 atgcttatgt aggcaaaacc gtagctgaga tttgttgatga ttcacttaag gatttttaacc 360
 ctatggttca tggtttcaata gagaaagggtg atttgtcaac acttggtgtt gatttttcaa 420
 aagtttgatg ttgtgggttat cggctac 447

<210> 5974
 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-B10
 <400> 5974

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 agagcaaaac tatctaattc catggcgctt ccctctctct ctccaattcc tacctctgcc 120
 tctctttttt tcaactctct cgccattacc gcttctaata atgcttcctc ctctctctct 180
 tcccgctctt actctttata tcaccccaaa ggaaccttac gaaccagaac cgcgacctcg 240

tttttcggag cttctgggaa cttgaggatt gtttccatgg cggagaatag gcaattgggt 300
 tgtaggattg gtggcggagc cgggtgctgaa ttggatgata tggatgaagg tgaaatccag 360
 aggattggaa atgaagacga agacgacgat gaattcatac aagtcaatgc taataattcc 420
 tctgctgctt cncgtg 435

<210> 5975
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-B2
 <400> 5975

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 aacagcttct tgaaaacccg tttttctgcg atacagcgcg tgagtggaag ccggatattt 120
 cttgtgatgt tcttgctgat atctatcaag atggaactcg tctttgggct attgataaac 180
 cgaatatctc tcgtccaccc gctggctggc aacgtttact gcggattaga ggtgaaggag 240
 gtaccagatt tgctgatgtt tattatgttg ctccgtctgg aaagaagctt cgatcaactg 300
 tggaggtcca aaagtacttg aatgacaact ccgaatacat tggagaaggg gtgaaacttt 360
 cacagttctc gtttcaaate cccgaaaacg ctgcaggatg actaacttaa ggaaaccgcc 420
 caactccaac tactggattc catcgataat acaaacancc cctgttacta aaga 474

<210> 5976
 <211> 469
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-B3
 <400> 5976

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 gtgccttgac caacacgtta tctcctgnag acaggattgt ttcgtttctg antggacaat 180
 ttaacttgct ctggattgac cancagaana cgcttaattt cantgttgat gtggttgaga 240

gtgattgggg acaacgtgct aatctccaag tcttggnctc aaagctctca catgacgaga 300
atcataccat caaagccatt tgcattgtcc acaacgagac ngcgacnggn gggtacaaat 360
gacatctctg ctgtccgcan atcctcgatt actanaagca tccnggnttt gctgctaattg 420
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<210> 5977
<211> 450
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-B4
<400> 5977

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cactgccact ttctctgctg ccgtctccac tactttcttc caggtggcag tatcaagagg 180
cttgaacggg atagggctag ccattgtgac acccgcgatt cagtccctag tcgctgactc 240
aactgatgac tataaccgtg ggatggcatt tgggtgggta ngattcacat caaacattgg 300
ttccatactt ggctatgtat gttcactctc ttgacctcaa aatctttcaa tgggtgtcgct 360
tggattggag naatcgccctt ccttttgggt aagcaagtcc gttaagccgt gaaaagtagg 420
gcatttttgg gtccggtctc ctncgcaaca 450

<210> 5978
<211> 460
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-B7
<400> 5978

acgcgtccga atcaatcttg agattgtgtc aagaaacctc aagagtgaaa atgagttttt 60
tcagatcaaa gacttcaaaa actgaaacac aacaaccatc atcgatatga caacaacaag 120
acgctatgta ctcatcttac ggaaccgtga gtgacgaagt gttattacag attcatggat 180
gcagagctca tctcatcaac ggatccgaag ctgtggagct agccgccgga gacttcgagc 240

ttgtacaagt cttagacagc aacgtagcct tagctatggt cgtgaggatc ggaaatgact 300
tacaatggcc ggtgattaaa gacgagccag tggtgaaact tgactctcgt gactacctct 360
tcacgttgcc ggtaaanga tggagagcca cttattacgg catcacgttt ttccctantg 420
atgaaaatga catcggtttt gtgaataagt acgantttgc 460

<210> 5979
<211> 466
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-C1
<400> 5979

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aaagttaccg catttggtga ggcctgaag atcggagggt cggaagtga caacaagatc 180
agtgctggtg tgagctcaat gagctttaaa gtgaaggaaac tttttcaagg tccaaaccca 240
actgataaaa tagtcgaaga tgctactact gagaatctag aggaacctga ctgggatatg 300
aatttggaat tttgtgatat gataaatcaa gagacaatta atancgttga gttgatccgt 360
ggtataaaga agangattat gatgaagcag ccgaggatca ntaccntgcc ctgggtttgc 420
cccagactgt gttaagaact gtgagaaagg gttttcaaaa ggtgga 466

<210> 5980
<211> 450
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-C11
<400> 5980

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gaagaagcta cggctgctaa gttaccctag ggcaaattgct ccagctcagt ctctctctt 120
cgccgggatg gaacgttatg ctcttctcga atggctcttt ttcaagttat tangtgataa 180
atcacctttc tcacagcaaa atctccaagg agatgctgga gttcgtgatg aagaaactgt 240

tcgtattcaa tatttggcag agattgcaaa gtttttgggg attacaccaa ctgtagacat 300
 tgaagccatt caangacatg gaacctatga agatcggatg gaaatgcttc gcantattgt 360
 tgatttagtg gangcgaacc tcttctcaga taatcaagat gggngtattg atgaacaant 420
 tgccaaaaga tattcagctc atagatgcaa 450

<210> 5981
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-C12
 <400> 5981

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 cgaagggttc gatgctgaag acgacgatgt ttcagaagat tccactgagc ttcaccactc 180
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 gtccctccatc tcttctgatt actgggatga agatgagttc gaaggattgc cggaggacga 360
 gaaatctacg gagtctccgg ttttttccga tgacgcctcc tctctgccga tcaaaaagacg 420
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<210> 5982
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 5982

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 acatctttct tcacaaccg ttttttctc agcgactctt cagaacctgg ctcgagtttt 180
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ttgtacaaca cagctcgtgt tttccccgtc ggaggatcat acaaattcca agtcactaac 300
aaaggnactc actttaaccg tccccaatc gcgcccttta aaagcctcca agaattaach 360
taaaggccgg caaaattcca gtttgataat ggggtccccg ggatnacaan ttcaatacaa 420
ctccgtcggt ggtaaaggaa tcaaactcaa aatcgatgac ccggttt 467

<210> 5983
<211> 476
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-C3
<400> 5983

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ttcaccaatg aatctcgtct ctgggttgat cggatgctgg actacaatgt acgtggaggg 180
aaactcaatc ggggtctctc tgttgttgac agtttcaaac ttttgaagca aggcaatgat 240
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gcttattttc ttgtgcttga tgatattatg gataactctg tcaactcgccg tgggtcaacct 360
tgctggttca anagttcttc aaggttgggt aaggggttga atcaatgaag gggaatccta 420
acttncgcaa tcacatccac aagggtattc caaaaagnaa tttccgtgaa aaagcc 476

<210> 5984
<211> 465
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-C6
<400> 5984

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ctctgttctt tcttctgaca agaacttctt ctctcgtgat ttcgttggat tatactgtaa 180
gtccaagagg accagacgca gacttcgtgg agacnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnngc cgttatcgac cttgaacgtg ttcattggcgt 300
 ctctgaaaag gatctctcct ctccttcagc tttaagacct cagggttgcta atttggagga 360
 tatattgtct gaaagaggag cttgtggagt tgggttataa caaacttaga taacatacct 420
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<210> 5985
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-C7
 <400> 5985

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 gcggcggaagc ttcatgtatc ggcgaaatct gatcaaagca gtgtgctgatt accgagagtg 180
 atcaacctct cccgcgatcc aacgactaga gtctcggttc cgcgaaatgg atcagtttgt 240
 tcctccaca cnaattttctc ttctccacat ctgcgaaac cttgcgccgg angtggtggt 300
 ggtggaatgc accggttaata acggcgccgg aagcggaagc ggnggaggag gtggtggttn 360
 tggaggttca nggggtgann cagtangan ncatacatg gggacantan ggtatcatcc 420
 aaggangata tca 433

<210> 5986
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-C9
 <400> 5986

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 ngcttcaacg ttccagttat ggttcggggg cagggtccgg ttcgggctca tggtcangaa 240

accgtctcta cgtgggcaan ctttcttggg gtgttgatga catggcactt gagaacttgt 300
 ttaacgagca angacatntn gttgaaatct aaaggtttat ctacgacagg gacaccggta 360
 attcaacggg tttntggatt ttgttaacac tttanctent tccaaanaag ttcaagaaag 420
 gccattaaat tcccttgaat tgggaagcaa aatttggat n 461

<210> 5987
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-H3
 <400> 5987

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 cattgcaaag aacacaagaa agacaaagaa gaatctacct cccggaccac caagacttcc 180
 tataattggt aacttgcacc aattgggatc aaaacctcac cgttcgatgt tcaaattatc 240
 tgaaaaatat ggacctctag tgtacctaaa gcttggaag gtaccgtctg ttgtggcctc 300
 aactccagag acagtgaagg atgtcttgaa aacgtttgac aaagattgtt gttcgcgagc 360
 ttttttgaca tatectgcaa gaatttcata caatttgaaa gatctgcgtt tgctccctat 420
 agcaaattatt gggaagnngg tacgaaaaga tgacggttgt cnaac 465

<210> 5988
 <211> 460
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-H6
 <400> 5988

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 attcttcacc ttaaccgctg caacagattg tggttgcaac ccaagtccta agcacaagcc 180
 tgtcccaagt cctaaaccca agccggtccc aagtcccaaa cccaagccgg tcccaagtcc 240

ttcagtacca agtccttcgg tcccaagtcc taaccctang ccggtcacgc ctccgagaac 300
ccctgggtca tctggaaact gtectatcga tgctctcaga ctcggtgtat gtgcgaacgt 360
tttaagcagt ctactcaaca ttcaattggg tcagccatca nctcaaccat gttgctcgct 420
catccaaggt tggttaactc gacgctgcca nttgccttgc 460

<210> 5989
<211> 456
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-H7
<400> 5989

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aattgaccgc gctatgcttc gaccgggtcg ggtcgacgta cacattcatt ttcccttatg 180
tgatttcacg gcgtttaaaa cgctcgctaa taactactta ggtgttaaag agcacaagct 240
tttctctcaa gttgaaggaa tatttcaaaa cggtcgctcn ttgagtcccg ccgagatcng 300
agagttgatg atcgcgaaatc gtaactcgcc gactcgtgca ttgaagcatg tcatcaatgc 360
tttgacagct gatggtgatc ggagaggaac tggacgacgt ttgcttttan aaaaatggtc 420
gagaaagtcg actcggagga ntttctgatg atataa 456

<210> 5990
<211> 465
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-H8
<400> 5990

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ttccacagcg gagccaagca gagcagcttc ggcgctgtca gagtcggcca gaaaactcag 180
ttcgctcgctg tttctcaacg caagaagtcg ttgatctacg ccgctaaagg tgacggcaac 240

atcctcgatg acctcaacga ggccacaaag aaagcttcag atttcgtgac ggataaaaca 300
aaagaggcat tagcagatgg tgagaaagcg aaagactacg ttgttgaaaa aaacagtga 360
accgcagata cattgggtaa agaagctgag aaagctgcgg cgtatgtgga ggagaaagga 420
aaagaaaccg caaacaagn ggnanaattc gcggagggtg aaaca 465

<210> 5991
<211> 458
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-022-Q2-E1-H9
<400> 5991

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ggtcttctctt acgccttcaa gcgaaccgga tggctcatgg gtgtcctcct cctcgtctcc 180
gtctctgttt tgacctatca ctgtatgatg cttcttgtct ataccgccc caagctcgac 240
tctttcaatg ctggnatctc caagatnggn tcctttgggg accttggtatt ccccgttcgg 300
cggtnccctng ggaagggtgt ncttnacctt attaacnctc cgtnncaaac tgggttttgt 360
gtccgataac ctaaccttca tcggnactac tttagcta atc nanccgatt ctgaatcgnc 420
caacantctg aaggatcaat ttacaaaggg tgggggttt 458

<210> 5992
<211> 462
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-023-Q1-E1-A1
<400> 5992

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tgcgaccan nancaccatc ttcttctccg gcgaaaacaa acccaccgcc atgggggaaag 120
gtcgtgcact ttccgacgga gtgatcaaaa agatcatcct ttcatacacc tatgtngcaa 180
tctggatctt cctcagcttc acagtcacg tctanaanaa atacatcctc gacaagaaga 240

tgtataattg gccattccca ataactctca ccatgatcca catggggttt tgctcttcct 300
 tanctgtgat tctcatcaaa gtcttnanag tcgtcgagcc tgtttcaatg tcacgccaga 360
 cntatcgcat attngtcgtn caaatcgng cgttgtagtc aatttctctc tgggttatca 420
 aactcggcnt acatctagct cccnggttc cttcatcaa at 462

<210> 5993
 <211> 401
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-A10
 <400> 5993

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 tagtctccca accaaaccca ccaaccgga ggcgccggtg ttgcttgacc ggatgctgag 180
 cttacttgtc agccactcga tcttgaagtg ccgtatgatt gaaaccggag agaacggtcg 240
 aaccggaaag atcgagaggg tatatgcagc cgaaccggtt tgcaagtatt ttttgagaga 300
 tagtgatggt acaggatntc tcgtgcctcn gtncatgttg ctcataacca agtgttttca 360
 ngacttgnc aaaccttaaa gatttgctcc aanaaggaag a 401

<210> 5994
 <211> 447
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-A12
 <400> 5994

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 ccaaacccta cttggacgtc tccaaattcg tccccctaac tctcatttcc tctctcaatc 180
 cctagacgac ctctcttca aatccgacga cagcgacggc gatgatgacg gagaagggtca 240
 gaccagtctc gacagagaag aagctaggct tgagaaagag ctaatccgag tcacgtctc 300

tggtcgaagc gattctctca agccgaattc aggtcaagcc gtgacagtca acgancacca 360
 catctgcgtt gggtttcatg angatgagga atcggattat cgtgtttggg agtggcatgg 420
 tcatatcatg ttggtttgat gaagana 447

<210> 5995
 <211> 495
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-A2
 <400> 5995

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 ttattattac catttgccgc gttgttgagt gatctccgcg actatggaga gatcagcgtc 240
 ggtgggtggt aacgaaggcc gttttggtgg caaccaattc caatccgcaa ccttctctct 300
 cctctctctt ccttctctct tccaatggag acatgttaaa ttacaagttg tgggatctgt 360
 gggatgaac taaanctgga gctccacgaa tccgaatcac atcngacaat cgggtnaaaa 420
 gttacgggta aaatccaatg aaagaatggg gatnatance ttccttcaaa catccgacga 480
 agggaaagat tcant 495

<210> 5996
 <211> 469
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-A3
 <400> 5996

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 ctgttttttt tcttctacta gcgatggcga tgatagagca aaggccgaag acgaagatcg 180
 tttgtactct aggtccagct tccagatctg ttccgatggg cgagaagctt cttagggtctg 240

gtatgaacgt tgctcgtttc aattttctctc atggatctca tgaataccat caagagactc 300
 tcgataatct tcatcaagct atgcttaaca ctgggattct ctgtgccgtc atgctcgaca 360
 acaaagggcc aagaaatccc gaaacgggtt cntggaaaga tggggaaaac aatccaactg 420
 aaacaaggac aaagagatna ctatttcgac ngactatgac ttgaagggt 469

<210> 5997
 <211> 469
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-A6
 <400> 5997

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 aaaacatgct ggtcgttcct cctgggtctg ggattgtcca tcaggtcaac ttggaatacc 180
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 aggcanaggc agcaatgctt ggtcagccca tgagcatggt gttacctggc gtggncgggt 360
 taagttggat ggaaagtttn aaggaagggg ttacggctac tgatttaatt ctactgtga 420
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<210> 5998
 <211> 439
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-023-Q1-E1-A7
 <400> 5998

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 catatcggtg ttgcaatcgc tggctctaca gccgacggtc gtgtattgtc tcggtatatg 180
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gttggttcac ttgctgataa agctcaggtc tgtacccaac gatcatggaa acgaccctat 300
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 cccaacggaa actacttcga gtancaagct tttgctattg gattccgttc ccaagcagca 420
 aagactaacc ggaacgcan 439

<210> 5999
 <211> 488
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-H2
 <400> 5999

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 ccattctttc agctcatcca tcccttgata gccaaagagg ttaccaaca gcatgtgctg 180
 gtcacagata caatactgga ttcagaaaac aggtcaacct gttccaggaa agctccttcg 240
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 agaaaagnc 488

<210> 6000
 <211> 517
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-G2
 <400> 6000

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 ttgctgattg agaagcgaaa aatgcttgaa tcaggaattt gcaagtatgc gtgaacaaag 180

gagcaagaaa caatgatcta aagaagatga agttccactt actgttagag agacgtttcc 240
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<210> 6001
 <211> 513
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-G3
 <400> 6001

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 aagatggaac tgggtcttct cttccgatta tcgtcttgga gatgcctagt gtgttactta 180
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 atcttangcc ttcagatgca atcaatatag ctgttagatg caagatacct atccaagtga 420
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<210> 6002
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-G5
 <400> 6002

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ggatcagtga tagggataga tcttgggtact acttactctt gtgttggtgt ttacaagaat 240
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tttactgact ctgaaagact cattgggtgan gctgctaaga atcaagcagc tgttaatcca 360
nagangactg tcttcgacgt taagagattg atcgggcgaa aatttgacgg ataaaggagg 420
tcaaaangnt aaggaaactt gtaccttaca gattgtgaca aggat 465

<210> 6003
<211> 478
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-G6
<400> 6003

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cactttagcc actccctctc ccccatgttt atcttgccgc atctccctct tacacgccat 180
ctccgtttat cccgaaataa ccgcgtcnct tcngttgtat ccgccgccgc cgttcgccag 240
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gcttttccaa caatctcaat cggacatttn aaacgctccg gatntcgtag ctctgtanac 360
ganaaccggt cagtaactcc aagattcgtg gtcccngatg ttgaagaaac cctcctttaa 420
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<210> 6004
<211> 516
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-H12
<400> 6004

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 ttcacaagag tctctaccac actgaagacg ctctcaaga aatgggtggag agaagaacag 360
 aggttgtcgc tangctcaaa tctttggggag gangctgctg caccactccg tgtcntttct 420
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<210> 6005
 <211> 469
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-H3
 <400> 6005

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 caaatggcgg ctgaagccga taatccgtat ttccgacttg gatacaacag tctaggcgct 180
 ttcgctacca ttaaccatct tcactttcag gcttactatt tggcaatgca attccccgata 240
 gagaaagctt cttccttgaa gatcactacc accaataatg gcgtaaaaat ctctaaactc 300
 ttgaattacc ctgtgagagg tcttctagtt gaagggtggaa acaccattaa agatctcgca 360
 gatactgtat caaacgcacg cgtttgtcct cagaacaaca acattccttt caacaatccc 420
 anctctgact cctggnaaac gaatcctccc tctcctcaat gggttacgca 469

<210> 6006
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-H5
 <400> 6006

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acagaaatga atggtgcttt ctgttcaagc aggcaaatgc gtgttggtat cgcaaccccc 120
aaaagggctg ctgcttacgg ccaacaaaat gggtcacaag ctcttacact tgctgggtgga 180
catggaggga atggttcaat gtctgatgga gaatcaaata actcaacaat atttgttggc 240
ggtcttgatg ctgatgttac tgaagaagac ctcatgcaac ctttttccga ttttggggag 300
gttgtttcag tgaagatccc agtagggaaa ggatgtggct ttgtccaatt tgccaacang 360
caaagtgctg aangaaagca tccggaactt gaaccggaca gtcattggga agaactg 420
tccgccttt catggggaaa aaanccaac aaacagtggg gaaatnac 468

<210> 6007
<211> 473
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-H6
<400> 6007

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cgacatggag tccaacaggt cgtttattcc aagtgggaata cgccatggaa gcagtgaagc 180
aaggatctgc agcaattgga ctcatatctc gttctcatgt cgttctcgct tgtgttaaca 240
aagctcaatc ggagctttct tcgcatcaga ggaagatctt taaagtcgat gaccatatcg 300
gtgttgcaat cgctgggtctc acagccgacg gtcgtgtatt gtctcggtat atgagatcgg 360
aatcgattaa tcaactctttt acttatgagt ctctctctcc tgttggtcgt ctcggtgttc 420
atcctgctgg ataaaagctc aaggtctgtn nccaacggat tatgggaaac gaa 473

<210> 6008
<211> 468
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-H7
<400> 6008

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 gtgggtcatgt ggagtaaccc tttatgtgat gctgggtggga gcttaccctg ttgaggaccc 240
 taatgatcca aaaaacttca ggaaaacaat ccagcgcata atggctgtac aatacaagat 300
 cccggactat gttcacatat ctcaggaatg caaacatctt ctctctcgca tattccgtca 360
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<210> 6009
 <211> 470
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-H8

<400> 6009

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 atccantecn cgtttctctc cttccaagct ctctattcc actttcttct ctcgctctgc 180
 catctattac agatcaaaac caaaacaagc ctcgtcttct tcttcttctt ccactttccc 240
 cccatgtctc antcggaaaa gctccctcac gcatgttctc aaaccctgtc cagagctcgc 300
 cgacaccact accaagcctt tttctcngg agatcgtcgg naagagaacc gatctganna 360
 agattangat tctcggggct ggtecgattg tcattggggc aangcttgtg gagtttgant 420
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<210> 6010
 <211> 464
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-A3

<400> 6010

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 gactagacct atgatcgatc ctageccctat tcttaagtac tagccctagc cctgcatcga 240
 cttcttccgt ctcttctctt ggttttggtg acgcttccac gacaatgccg agactggata 300
 catttgagcc tggtggccgt gatctgacgg ctggtgatgg tgttgatttc aatttgatgg 360
 aggaggagta ccaaagtcca gttaggctat gggcgattaa gcgtctcctg atcctgattc 420
 cgagagagaa tgcanataca gctcagcttg atgccgctaa gagg 464

<210> 6011
 <211> 462
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-A9
 <400> 6011

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 gtgatcttct tcttcatcaa tggcgtctag tgataaaca acaagcccaa agcctcctcc 180
 ttcaccgtct cctctccgta attccaagtt ttgtcagtca aatatgagga ttttgatctc 240
 aggaggagct ggattcattg gttctcacct tgttgataag ctgatggaaa acgaaaagaa 300
 tgagggtgatt gttgctgata actatttcac tggttcaaag gacaacctta agaagtggat 360
 tggatcatcca agatttgagc ttatccgtca cgatgtcacg gagccacttt tgatcgangt 420
 tgatcagatt taccatcttg catgtcctgc ttctcctaac ct 462

<210> 6012
 <211> 482
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-022-Q2-E1-B11
 <400> 6012

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 cagaggggtt ccaaataatta ccagtcgtta ggaagcaatc acgagttggt ttaggaatta 180
 gtgaacgtga taatggctag caatgagatg gaaaaatcga gtaaagagaa ggaacctaaa 240
 acacctctc cttcttctac tgccccctcc tcttcacagg aaccttcac ggctgtgagt 300
 gctggcatgg ctactccaga ttggtctggt tttcaggcat attctcctat gccgccgcct 360
 catggttatg tggcatctag tccccaacct caaccttata tgtggggagt tcagcatatg 420
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 tn 482

<210> 6013
 <211> 500
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-G10

 <400> 6013

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 tcaatggaga acataaccgc gcagctcaaa cgaggtatct caagacaatt ctcaactggt 180
 tcgattcgtc gaacattgag ccgacagttc acgcgtcagt catctcttga ccctcgtagg 240
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 gattcttcca agagtgatga cgagccacat atgtcggtag cggagaatct cgattcgacg 360
 atgcagcttc tctttatggc tagcaaaggt gatgtcagag gaatcgagga gcttcttgac 420
 gaaggaattg atgttaatag catcgatctt gatggccgga cggngcttca catcgccgct 480
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<210> 6014
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-D1

<400> 6014

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gttttcttga ctcaggagta tggccagagt ctccggctta taatgacgaa gggcttgaac 180
caataccgaa acattggaaa gggaagtgtg tagccggaga ggattttgac ccagcaaagc 240
attgcaacaa gaagttagta ggagcaaagt acttcactga tggctttgat gagaacaatt 300
ctggaatcag cgaggaggac tttatgtccc ctagagggtta tagaggacat gggacgatgg 360
tctcttcaat tgcagcctct tcatttgtgc ctaacgtgtc atatggtggc cttgcacctg 420
gtgtcatgan anggcgtgc tccaaangcc ctaa 454

<210> 6015
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-D10

<400> 6015

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cttcgagacc tgaaatttcg ttattacttc gattcctttt cacttccagt ttaatctctc 180
caccgttcct ctccggcgac actccgatga cttaccgaat cgcccaaggg atttagtccg 240
ccacgatatg aaaggaggat gaagaggaca agtggatata tataagggtg tgaaaacgac 300
gccggatttg cgaatcgttt cggatggaca tttttgttta cttctctcct tctctggcca 360
ctcttctctc ttctgctgga ccaatactgc tcatanggat gatggcgta aaagagatga 420
atcgcgattt gtgtattgct gaggatttat gcgcagaagt gtttatggaa acntgaaggt 480
atggggactt catcacagaa 500

<210> 6016
<211> 519
<212> DNA

<213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-D4
 <400> 6016

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gccgtcaaac cacctaaacc accggcagta aaaccaccta ctccaaaacc tcacaccgtg 300
aaacctcatc ctaaaccacc aancgtcaaa ccccatccta aancaccaa cgttaaacct 360
caacctaaac canccancgt naaaccancc caacctaaac caaccaacaa anctnaacct 420
caaccaaaac ctcccatcgt naanganca accaagnctc ctccgttcaa ccctaaanct 480
tccaanaaaa cttccccggt caaaacgtaa acnttccaa 519

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<210> 6017
 <211> 464
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-D5
 <400> 6017

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cttgggaaag ttcttcatct atcatccttc aatcgatc atccatgggt gatcaacaaa 180
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taagtcgact caacgcggga gctcctgagt tcgttctctg tcgaactact cctccgctgc 360
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<210> 6018

<211> 511
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-E3

 <400> 6018

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 cttctttcac ttctgggcaa gaagctctgt tgtggaacat cggaaatcag aactgaaaca 180
 gaaacagaaa ccatggagaa gagagaagac gaacaacaaa agcgcgacga ttctagattc 240
 aatcaaacac tcaagaacgt ccaaggggtt cttaaaggta gaagtattcc tggtaaggta 300
 ttgttgacta ggagatcaga tctctctcca taccatct ctccaacata tcaacggagc 360
 ttatctgaga atgacgccg aagaaatgag ctattcgaaa gtctgttga ngtggaggat 420
 cacaattcaa gcaagaaaca tgataatata tatgctgggt aagctacgat naaactctag 480
 tgctgaaagg agtgtgaaaa gaagttcaaa a 511

<210> 6019
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-E5

 <400> 6019

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 atctcgata ggtctcgccg gtctcgagt catgggacaa aacctcgct taaacatcgc 180
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 agatcgtgcc tccaacgaag gaaaactccc agtcgctggt caatactcgc ctgcgattt 300
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 tgancaaacc atctctgctc tctctgaata catgggagcc tggtgattgt atcatcgacg 420
 gtggaaatga gtggtatcag nacacagagc gacgaatcgt tgaagct 467

<210> 6020
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-E6

<400> 6020

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 ttcaaaaaac ctgcagttcc attcgcattc gcgctaattc ttgctgatgc aatcctagtc 180
 gcacttatta tcgcctatgt tccatacacg aagatcgatt gggatgctta catgtcacag 240
 gttagtgggt ttctcggggg agagagagac tatgggaact tgaaaggcga tacagggccca 300
 ttggtttatc caacagggttt cctctatgtt tactctgcag tgcagaactt aactggaggg 360
 gaaagtctaa cctgctcaaa ttccttttgg tggttctctac attgtcaatc cggggatcgt 420
 cntgatcatc ctacgtgaag actgatgtng ggccatgggt gggaat 466

<210> 6021
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-021-Q2-E1-E7

<400> 6021

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 caagattaaa ggatggcaag ttctagcgat cggaactct ttaacaccta aagattggaa 360
 tctcaaagggt gcgatttttc tatctctaga tgctcaagct gagcttaatt accggatttt 420
 ggatcatttg ccttaagatt ccttcgtacg caaaaatgtc gggtta 465

<210> 6022
 <211> 505
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-E8

<400> 6022

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 cctcttcttt aaattggatg ttttgggcaa caaacagaga gaaanacgtt aatttgagag 180
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 ttatcnaagt aataacntta agcatgaggt taacgatgan gctgtcnaan aacnagggtt 300
 aagtacgaag gcagctacag aatgggggaa gtcannnggtt tttgctactt caagtttcat 360
 gccttcttca gatttccaag gaggctaaag cgtttccggg gtgcanacca gtggggatca 420
 gtttctgcgg ncaatgtttt cccgcagatg ccaanttggg ggggtgggtt caagaacggn 480
 gacgccgctt taccaanggg gggca 505

<210> 6023
 <211> 509
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-F10

<400> 6023

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 caatgtgaac ggagatcccg gcgccggaga ccggaagaaa gaagaaaggt ttgatccgag 240
 tgcacaacca ccgttcaaga tcggagatat aagggcggcg attcctaagc actgttgggt 300
 taagagtcct ttgagatcaa tgagttacgt cgtcagagac attatcgccg tcgcggtttt 360
 ggccatcgct gccgtgtatg ttgatagctg gttccttttg cctctttatt gggccgcccc 420
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caagacattc ctctactgaa taatgtggg

509

<210> 6024
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-F4

<400> 6024

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tgcttgcttc tggttgctta accaaaacac catggaatct ccctaaattt cctcacctac 180
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agtttngcct tggncgnaaa attgggaacg gntncttcgg ggaaanttaa ctcggnaatg 420
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ngcaatt 487

<210> 6025
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-F5

<400> 6025

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tggcgttgat gcttgtcatg gcatcaagat ggtcgctgat actcttctcn ctgatattac 180
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aaactgtaaa tcttttagaga acatgggtcaa gaaacaagac tctgatggcc gacttaacgc 300
agctatatgt tgtgctcctg ccttggctct tggtaacttg ggtctactan aaggcaataa 360

agcaacgggt taccctgttt ttatggacaa acttgcggt acttgtgcaa ctgctgttga 420
gtcaagaagt gcaaattgat ggaanaatag tgancaatcg tggaccaagg aancaccatt 480
gaattc 486

<210> 6026
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-021-Q2-E1-F7

<400> 6026

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aatcatctct ctggatccgg atctctccgc cgccggaaag ctttatcagt ccggtgctcg 180
tctggcgtg agaacgctcc ttgcgccatcg gtggtgatgg actccgattt cgacgccaag 240
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gaggagacac tcaagctcat gaatcgagag tacaccagtg atatattgga gacactgaaa 360
acaaatgggt atacttattc ttggggagat gttactgtga aactcgctaa agcatatggt 420
ttttgctggg gtgttgagcg tgctgttcag attgcatatg aaac 464

<210> 6027
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-C9

<400> 6027

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aagattcatg gggtgaaaag gggtgctatg tgtgcattgt tattggatat tgccaaggcg 180
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gccaatggct tgtccaacta ttaatggccc tcgattatct tcaactccaac catattcttc 300

accgcatgt caagtgttct aacatattct tgacaaaaga gcaagacata cggcttggtg 360
actttggact cgctaagatt ctaactttctg atgaccttac atcctctgtt gttggaactc 420
caagctacat gtgtcctgag cttcttctgtg acatacctta cggatnaaag tcagacattt 480
ggtcgttggg atgctgcatg tatgaaatgg ctgc 514

<210> 6028
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-H12

<400> 6028

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cggtagattt tgcattcaac gtttgggaaa gtgctccgga tacaatgggtg gggtttgtgc 120
cccgtgtgca ttggcctgaa aaatcgaatg ataaagccaa ttactacacc tacagtggat 180
ggtggtctgt ttggtggagt ggtacatata gcatgggtact ctcaaaggca accttcttcc 240
acaaaaaaat acctcaacct ttacacaaat agcaagccaa catcaatcan ggaattcaca 300
acaaagaaca aggaactggt aaagatattg caatgtcaat cctcaatccg caaatgctac 360
aaacgctcct ggctataatg gtttaaagggt taaatatatg aaatccgggt caactgggaa 420
tantancata ggagggcaca cagaaaaaag acacactgcg tt 462

<210> 6029
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-020-Q1-E1-H6

<400> 6029

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ctttataact ctttctgggg tttttaattc tctcaacgaa caaaaaaaaa aactcaacta 120
atattctcca tctcttttct tcagatttaa gagaaacctt atcgttatat tctctcttct 180
cttttctttt tgactccac aagaagaaag caaatttctt tttctcagga ttgcttgaaa 240

actgtagaaa tctttaaggt ttttttacac caatannnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn tctattcata aaaaagacag gtaatctcaa ctccgnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgggttgct 420
 tttttatcag cttgggcctt gggaaaactt tggcatcctc aagtttcctn ctctacgctc 480
 caattanctg g 491

<210> 6030
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-H8
 <400> 6030

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 cgggggagag ttctatgtac caagagacga ggagttctct acagccaagg gcacttcatt 120
 cacaggcaag gccgtactgg cagctcttcc ctccatcttc cctcagatcg agtctgttct 180
 attgagtccc caagaacctt ttccacactt caaggccata caaaatctct ttgaagaagg 240
 attcagcttc ccaangatgc tggcctctta cctctgctcc ccanaatcat caaagctctt 300
 ggcaagctc aagatgatat tctccagttt gatgcccaag ttctcaataa caaggataga 360
 atttcaaggg ttacgagacg aacgaagttt gtcgcccaa gacacttgcc nggccttaaa 420
 cccttatagc attcanctag t 441

<210> 6031
 <211> 501
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-H9
 <400> 6031

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 ctttgtctc ccctgccttc gccggaaagg ctgtgaagcc tgccgcatca gatgtcctcg 120
 gaagcggccg tgtgaccatg aggaagactg tcgccaagcc aaaggggtcca tcaggcagcc 180

catggtacgg atctgaccga gtcaagtact tgggtccatt ctccggcgag ccccccagct 240
accttaccgg gtgagttccc cgggtgactac ggatggaaaa ccgctnngtc tatccggccg 300
accaaaagaa cctccgcaag gaaaccttga gctaaaantt ttccaacaag caagaatggg 360
ccaatgcctc cgggagcccc taaaggctgg cgttttttcc ctggaancta attgggctaa 420
nggaaacggg agtnaaaagt ttcgggaaga aaaccnngtt ttgggtttca aaggggcccg 480
gtttcaacaa gattctttca a 501

<210> 6032
<211> 473
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-A1

<400> 6032
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aagatcagac gaggacggtg atgacgccac ctctgttctt tacagggtca cctccaagta 120
gagtttctaa cccattaaca aaagattcgc tttttcgaga agagcttctc atggtggcct 180
ctccgagtcc atcgactcca cgagcaacca aaccgcagcc accgtcttct ccaaggaacg 240
gtagtgtgtg tatggcgggc acgagtttcg ggaacaatcc tgtggttcgt gttgtggggg 300
ttgattgtga cagacgcanc agcaacanga gcatttcgac tcttgcataa agaagtagtc 360
caatatgcat atatatatta accagnang agtattaaaa ggancaacta agaaaagggt 420
taaggatttg attaagttgg gaagggtttt gtttggtgaa aatgtngtaa aaa 473

<210> 6033
<211> 477
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB23-021-Q2-E1-A10

<400> 6033
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attgttgttg agactccgga aaatggaggg gaagatcttc tgctgaccag tgagttctct 120

aaggaatgtc tggagatgta ctctgtacca tcacgaggat ttgagacaaa cccacgcggg 180
 tttcaatcaa agcatcttaa tatagtcgat ccgcttaaag aaactaacia tcttgagcgc 240
 agcgtaagca aaggtaactt ttatcgata cgaagtgcac tcacatatgg tgctcggaag 300
 cttgggcaac ttttttgcaa gtcagatgaa accataagtt ctgagcttcg taagttcctc 360
 ccctaacaat gctactcaag gcatgggaat tggcaaaagg cccgaatgtc catgaagcch 420
 attccatttt taaaggtaca acaaggtaca atgccaaaat tgccancttc caaccat 477

<210> 6034
 <211> 517
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-A11

<400> 6034
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 aaacagtctc cctagtgagc gatgatgaaa gcaaaccaga aaccgaaacc ccacgcgcca 120
 ccgcgtcctc tcttctcctg tggtctcttc cgccgctgca cacaatccgt cctcagccca 180
 aaaaaaaaaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnaaga aaccttccag atcgagagc ttcacctcac atccgtctct 420
 gaatccgaca agctcctcgc tctacagcta ctgagcggg tagtcgtacc tgaccgcca 480
 tctgattcga cttgtcaacg gggctctcatg cgaagtc 517

<210> 6035
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-A4

<400> 6035
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gttttgcttg cttgtgcgtt tctctcgaac tctctccatg gctggtgcgc tccaattcag 120
 ccgattatgc gttcgaccgg atactttcgt gcgggagaat catctctctg gatccggatc 180
 tctccgccgc cggaagcgtt tatcagtcgg gtgctcgtct ggcgatgaga acgctccttc 240
 gccatcgggtg gtgatggact ccgatttcga cgccaagggtg ttccgtaaga acttgacgag 300
 aagcgataat tacaatcgta aagggttcgg tcataaggag gagacactca agctcatgaa 360
 tcgagaatac accagtgata tattggagac actgaaaaca aatgggtata cttaatcctg 420
 gggaaattta ctgggaaaat ccctaaaaca taatnggttt tgctgggg 468

<210> 6036
 <211> 493
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-B10
 <400> 6036

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 gcgagctcag tgacgctgct tctatggagt cttcttcttc tcggtacact aagcgtatt 120
 caggccaaaa agtctaagga aaacttaaag gagatcacac acaagggtta ttttgatggt 180
 gaaattgatg ggaaagcagc tggctgtatt gtcatgggtc tatttggtcaa gacagtcccc 240
 aaaactgtag agaatttccg agctttatgc actggggaga aaggaatagg taagaatggg 300
 aaggcgctcc attacaaggg gagttcattt cataggatca taccaagctt tatgctccaa 360
 ggaggcgatt ttacacatgg aaatggaatg ggaggagaat ctatctatgg tgagaagtgt 420
 gctgatgaga acttcaaact caagcatact ggtccaaggg tcttatcaat ggnaaatgcg 480
 gtcaagatac caa 493

<210> 6037
 <211> 510
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-B11
 <400> 6037

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 taggggttttc tgggaattag gttgattaaa ttatgcgagg cggtagtagg agaaggtcaa 120
 acggtaggttg tagttctggc aaaaacaagg ctaaattctcc aggacagagc acgagaacca 180
 atcataattc cggggcgggg tcttctctcg gtggctcgta ccgacgtcag aataatacta 240
 ctttgtttgt tgaaggaggt attctctctcg actaccgaaa agatcctaac ttttcgacgc 300
 catctcgttg aggaagctct tcgggaaagg gattgagatc tagaagcata gagcgtgtaa 360
 aagcttctgc ttccacgagt ggtccaagga aatgcagtgg taatacttat gtgtatcaat 420
 atccttccat tgattttgaa gaaagggttg atncaagatn aggagttgaa atgatnaaat 480
 gaatgaaaat ccactggtgt ttgggaaatc 510

<210> 6038
 <211> 509
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-021-Q2-E1-B9
 <400> 6038

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 ttcagcctga aggtccaagt tttcgtgtaa ggggttactt tgtcgagtgg cagaagtgga 120
 actttcgtat tggattcact ccaaggggaag gtttagtcat acattcggta gcatatgttg 180
 atggcagtcg aggtcgaagg cctgttgac acaggctaag ttttgtggaa atggttgtgc 240
 cttatggcga tctaatgag ccacattaca ggaaaaatgc ttttgatgca ggggaggatg 300
 gtctcgggaa aaacgcacat tcgcttaaga aggggtgtga ctgtctggga tctatcaagt 360
 acttcgatgc ccatttcaca aatttcactg gaggagttga aacaattgag aactgtgttt 420
 gcttgcataga agaagatcat gggattttgt ggaaacatca ggactggaga acaggattag 480
 ccgaagtgcg aagatctagg agactaact 509

<210> 6039
 <211> 499
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations

<223> Clone ID: LIB23-021-Q2-E1-C12

<400> 6039

tgcccgccg gatgatcaag ggtcgacca cgcgtccgct ggagttgtcc aactaagaca 60
 aaaagtgcaa tacatgagggc gtcgaggtgc aaaggtgatg ctggagggat ggataacaag 120
 agaggggatt cattgtgatt gctgcagtaa aatactcaca gtctccaggt ttgagattca 180
 tgctgggagc aagtcatgtc agcctttcca aaatatatat ctggaatctg gcgcttctct 240
 tcttcaatgc caagtcagag cgtggaatat gcagaaagat gctacgaatc ttgctctcca 300
 tcaagtggac actgacgggg atgatccaaa tgatgatgct tgtggtatat gcggtgatgg 360
 tggagatttg atttgctgtg atggttgtcc atcaacatat catcaaaact gccttgggta 420
 tgcaagtgtc tccttcgggt gattggcatt gtccaaattg cacatgcaag ttttgtgaag 480
 canctgtggc tctggtggc 499

<210> 6040

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-021-Q2-E1-C5

<400> 6040

acgcgtccgc gcnatcttca tcacgagcaa atcgaatctc cgattatata tcaaataagct 60
 taccaaattc gacatgaccc aggcctcgt tttcggagga ctataatgat cggactcttc 120
 gtgtcccgtc tcgattgcat ggggtttgag ctatgccgga gcttcgccgt ggagtcgcc 180
 gtggccgtgt tactgatgct gtagctccca atcagcttcc gcaaacacct acagaaaaga 240
 aaccgaagaa gagtaccgtt aaagctccaa aaccggttgc cggcggaggtt acaggagttg 300
 cagagaggcc gaggactaga ttagcggcga ggaaattaaa ggaggaagat aaagagatac 360
 ctcaggagat tccggttgtt gtgccgtcta aggatagcga tatcgataaa aacaagggtg 420
 aagaggtagt cgttgaagaa gagaagaaa atatggctan tggtaa 466

<210> 6041

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-020-Q1-E1-H10

<400> 6041

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cctatctctc ttacctccgt aatttggtcg taagagaagt atcgtgatgg gtactgagag 120
aaagaggaaa attagtctgt tcgatgttat ggacgatccg tctgctccgg cgaagaacgc 180
caaaaccagt ggtcttcccg acggcggaat caacagtctg atcaataaat ggaacgggaa 240
gccttattca cagagatatt atgacattct ggagaaacgg aggactctac ctgtctggct 300
gcagaaagag gagtttctca aaacgttgaa caacaatcaa accctaattc tggttggtga 360
aaccggtagt ggtaaaacta ctcagattcc acagtttgtg atagatgctg tggatgctga 420
aacatcggat aagcgtaagg aantgggttg ttgga 455
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<210> 6042
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-D1

<400> 6042

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attccctcaa aaggaaaaac taaaaagccg atcttggtt ttttgtttct gagtgcattc 120
cgatacttgg aagcattctt tgggtagggt gattcattct catctgtgaa agtctttggc 180
ttttgaagca atactatgga aggaattcag catcctatac ctgcgactgt cgaagagggt 240
tttagcgact ttcgtggtcg tagagctggg tcatcaagg ctctctctac tgatgtacag 300
aagttttacc atcagtgtga ccctgagaag gaaaacttgt gtctttatgg acttccaaat 360
gagacatggg aggttaatct tcccgttgag gaggtccctc ctgagcttcc tgaaccagcg 420
ttaggcattc atttcgcaag ggacggaatg cangaaaaag actggat 467
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<210> 6043
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-019-Q1-E1-D10

<400> 6043

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gaatctcggt ctcaacccga gatctaaca atctctcact caatccgtac ctaaatectc 120
cgcangattc gtctgctccg atgacaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntct gtcctatgc cagctgtcgc 240
tgatatctca gggttgactc cttgcaagga ctcaaacag ttcgctaaaa gagagaagca 300
acagatcaag aagcttgaat cttctcttaa agctctacgc tcctgaatct gccctgggt 360
cctggctcct caaatggctc aagattngaa gaaaaacaat ncgcaagggt cgacaaacta 420
cggggaagtt agggattggt atgccgggtc aagacgggtt tacggcactt gataantg 478

<210> 6044
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-019-Q1-E1-D2

<400> 6044

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tcttacgatt gtcaacgcgt gggtccatct tcaattttgt ttctatttta gcagaagttt 120
ctcgagcttc aaatactggt tcagatcaat caatcagtc atcatggcta gctctggaaa 180
caagaacatc aacgccaaat tggattact aggagatggt ggagctggaa aatcaagtct 240
tgtgctacgg tttgtgaaag atcagtttgt tgaatttcag gaatcaacca ttggtgcagc 300
ttttttctct caaacattgg ctgtgaatga tgcgactgtg aagtttgaga tatgggatac 360
agctggtcag gaacgatacc acagttgggc tccaatgtac tacaaggggtg caactgctgg 420
caataatgnc cttgacatta ctaatcaagn ctcatttgag aaggg 465

<210> 6045
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-019-Q1-E1-D3

<400> 6045

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tcgtctggag atatcaaaga ttgacaatg tcaccggatc atagaatgtc accggatcat 120
agagatagcc atagaaagag gtctcgtcct cagtctgact acgatgataa cggagggaagc 180
aaacggagat atcgtggtga cgatagagat tcacttgtga ttgatcgca tgacactgta 240
ttccgatacc tgtgcccggg aaaaaagatt gggagtgtta ttggtagagg aggtgatatt 300
gtcaagcaat tgaggaatga tactagatcg aaaattagaa taggcgaagc aattccggga 360
tgtgatgaac gtgttattac tatctatagc cctagtgtg agaccaatgc ctttgagat 420
ggagagaaaag ttctttctcc tgcgcaggat gctttgttta agattca 467

<210> 6046

<211> 527

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-D9

<400> 6046

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nnnnngcgtg ttgtaacct atccaaatct tacncattga gggaatngga tcatcacgac 180
gcgtaaaaat tctgtatcgg aggaccgaga gatctccatc tcctgtccag attcgattcc 240
caccaatccc aatttcgtga aattcgtttag ggttttagtt tgaatctcat ctcatcagat 300
cgagtcgacc caggattang aagaagacaa gcgatgaaga tggcgacgaa tggccggggtt 360
tttcacaatc cggggctaag tccgcgttcn tgggtactca tccgaaacaa ttgggtgtta 420
gtngttngcc tgaacaagnn accttggtt nagcaagntn acgggantca aaggtagccc 480
gantntntc ccaaccantg gttgntnaca atgaagcggn cttgttt 527

<210> 6047

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-019-Q1-E1-E12

<400> 6047

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atctcactgc aagctaggac ttacagccac cttgtgaga gaagacgaaa ggattacaga 120
tttgaacttc ctcatgggcc cgaaactcta tgaagccaat tggctagatt tagttaaagg 180
aggctttatt gcaaatgttc agtgtgctga agtatgggtg cccatgacca aagagttttt 240
tgcagaatat ctaaagaaag agaactccaa gaaaaagcag gcactttatg tcatgaaccc 300
taacaagttc agagcctgtg agtttctgat tcgtttccat gaacaacaac gtggggataa 360
aatcattgtc tttgcagaca atctttttgc gcttacagag tatgcatga aactccggaa 420
accaatgatt tatggtgcaa ccagtcatat ccaaaggac a 461

<210> 6048

<211> 456

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-019-Q1-E1-E7

<400> 6048

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gtgtttgacg tgctcgatct gctcctttat gtcttcattg tcatcacaaa tttcttcaaa 120
cttaaataac ttaaggacct tcaccggact tgataataga gattaacgaa ctttgtgatg 180
acaacgaaga cacagctgat caaatcaagt aggtcaacca ctttctgaag acaatgccga 240
atcttgaaca attgatgttg tgctacgata caccaaatca tttgatgata ccattagaaa 300
ttacatttat tcaccacga ttctgtatct ggaaaagatg agacaattaa atatgcaaaa 360
ttaggttttg aatcttaaag tcattcttaa actcatgaaa ggctctcttt agtctagatg 420
acaaaattgt ttttgaaga aacaaacggt tttgca 456

<210> 6049

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-E8

<400> 6049

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnagct ctttatcacc attgtctcct 120
ttcttctcta tgctccattg ttcttatctt caccagttcc tgaccctgaa tctgtcgttg 180
aagaagttca caagagcatt aatgcgtcgg ttgcaggaag aaggaagtta ggttacctct 240
catgtacgac cggtaaccca atcgacgact gttggcgttg tgaccctcac tgggagcaac 300
accgtcaacg tctcgtgac tgcgccattg gattcggcaa aaacgccatc ggtggccgtg 360
acggtcggat ctacgtggtc accgactcag gaaacgacaa cccagttagc cccaagcccg 420
gaactttaag acacgcccgt ggtccaanga cgaaccactc t 461

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<210> 6050
 <211> 464
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-F1

<400> 6050

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cgccagttcg cgttacgtga aattgaggaa agagcaggct cctgtcgaag aagatatcac 180
accgggtgaa ctcaatcagc ccattgatgt tctcagttg aatgtccgca agtgccatga 240
atgtatgcaa gttctacctg aaacctatga acctccttct gatgaaaact ggaccaccgg 300
catttttggg tgtgctgaag atccagagag ctgcaggact ggtctctttt gtccgtgtgt 360
tctgtttggg cgtaacattg aagctgtgan ggaagagatt ccttggaacc aaccatgtgt 420
atgccatgct gtatgtgtcg aaggagtatg gcacttgcan cagt 464

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<210> 6051
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-019-Q1-E1-F7

<400> 6051

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tgtctgggtgt gacttgctgt ctgagggttcc ctgggtcaact caactctgac ctccgaaagc 120
ttgctgtgaa tctcatccca tccccccgtc ttcacttctt catggtgggt tttgctcttc 180
tcacctcaag aggtttctcan cagtaccgtt ccctcacagt ccctgagctc acccagcaaa 240
tgtgggactc caagaacatg atgtgtgctg cagaccaag gcacggacgc tacctcacag 300
cctctgccat gttccgtggc aagatgagca caaaggaagt tgacgagcag atgctgaatg 360
tgcagaacaa gaactcgtcc tactttgtgg agtggattcc caacaacgtg aaatcgacag 420
tctgtgacat cccanctact gggtcggaag atggca 456

<210> 6052

<211> 509

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-G10

<400> 6052

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aacaatacct ttttctaaaa tattcttcaa tttcttctc gaagcttctc caaaaatggc 120
gattacttct tctagaacca ccagatcaaa cggatctgct tcgctccgat ccaaatacacc 180
gtccggtcga ttctgtggcg tttactcaaa ccgtatgccg tcatcatctc cgctcgtcgtc 240
aggtttcgct ttttccacaa gctcaagttt ctctcaccg tctacagcgt ttttcagcag 300
ccacaatcag aacaaccacc accaacacag atctgcttct ccgacgcgtg tgaatctatt 360
cacatcagct ccgatgacgc aatcgtttcg ttactcaatc gataacagat ttatatcacc 420
gaatcgattc atcgctgttt cttccaacaa acctagcaat catcacaag attccggatt 480
ccgaggagaa natgtatgtg ctccccga 509

<210> 6053

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-G2

<400> 6053

taaatcttcn catgctcagc tttcgtccca aatTTTTctt gatcttgtgg attcgggtgat 60

agctgatgta gcatctgagt gtcacgggt ancacgacta ggacttgatc gtgatttgga 120

tatagtagaa gaagagttga gattgtcagt ggaagcgcgt gcgaagatcg ctgacctag 180

caacaacctc gaaaccaaca ccaaatatgt tgttgatata tttgggcaga ctcaccctcc 240

tgtagctagt gaagtgttca attgcatgaa ctgtgggcga caaattgttg caggaagggt 300

tgctctcat ctcgaaaaat gcatgggaaa gggaagaaag gctcgtgcc agacaaccag 360

aancacaacg ggcngcacag aancggaatg cagcagcag cccaatcca cgatattccc 420

cttatccnna ttctggctag tngagaacca attag 455

<210> 6054

<211> 469

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-G4

<400> 6054

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cttgaaatta tcaacgtttt gactaaattt aaagaacagt tgtgttcgtt cgtgccattc 120

ttttgaatgc ttatacgtac atttcttctt gaaaagactt tgaatccaag aaccctgtag 180

gaagtaatcc cagtgaagag aagacgacaa agaaaaagga gcctataaag atccaaagct 240

tcccttgtct ttagttctca tcaaaaaaat tgaaaaacgt ttggagttat tgagagagag 300

agagatagag aaagatgttg gaaggcaaag caatggtgga agattcagac atgccaagt 360

aagatgcaga tgcaagctat ggcatttgct tctcaagctc ttgacctttt tgatgtcctt 420

gactgtaaat ccaattgctg gtcacatcaa gaaggantt 469

<210> 6055

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-C9

<400> 6055

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agtctgttga tgaaatggct tctggcttag accatttttag tggaggcatt ggcaatatgc 120
ttgatgatgg tgactcacat ccaatcgga acatgcttcc tgatgatgag gaagagcttt 180
tctctgggtct aatggatgat ttaaacttaa gttccttgcc agctacgttg gatgacttgg 240
aagattatga tttattcggg agcggaggag gtcttgaatt ggagactgat ccatatgaca 300
gtctaaacaa gggctttctca anaaaggggt tttgctgatt ctaacgttga caatgttatg 360
cctcaaaaaca ttttcaaaat gggagtggga ttcaatggct ggngaacaac cctaagggga 420
acatccctca aaggccttgg ttggtccgga taataacaat t 461

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<210> 6056

<211> 511

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-A12

<400> 6056

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acgcgtccgg tennnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnct attcttaagc tttcttcgat cgtcgatttg attttttccc 180
ttcctttctta tttttctcgg ttgaagtaga agataaagca tcgatacatg atggctgatt 240
gataagagtt ttctccggag aggttcggag tttttttttt agaaaggaaa cattaataaaa 300
gatggcagtc ttttttctc gtcttcggag gtggttggtg ggtggttagta aactaaaga 360
tagagagaag aaagagtcaa ttctaaagg atcttcttca cttagtcctt cactgaagaa 420
gactactact aataagactg gttctctctc cttcatcaag tgaagaaaga acaaagagan 480
ggatggattg gaagaagaag attaagatna a 511

```

<210> 6057

<211> 455
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-A6

 <400> 6057

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 cgtgggttggc cggagctcta tcattcctgc cgccgctaac cggtcataat ctattatatt 120
 ccggaatgga gttgatttgg gggcgagatt cttctgtgag aacactgcgt ctgcccagaa 180
 tttcgatatt gatctctcta acgaagagaa taagagaaga acgatcaaca gattgttgta 240
 taggagcaag caaagagggg ttttggaact tgatcttggt ttggggaatt gggttgagga 300
 gaatgttaat tccatggacg aaaatgggtg taaatcccta attcatgtcc tcaatttggg 360
 aaacctgat ctctggaaat ggctaactga acaggaacag cctccggaag cagtgaagtc 420
 aaatccggtg ttctcggcgt tacacgagaa atcat 455

<210> 6058
 <211> 456
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-A7

 <400> 6058

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 tttctcttaa gaagaagaag aagaaagata aattaaaagg gtggttctga gttttaagga 120
 ttattgtttg annnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntta 180
 tctgattgct ctaatgaata tgagaagctc gttgttcgga tgaacatgcc cagggtcgta 240
 attgacaatg gagtttggcc taattcaact gtcgtcaaga ttgatagtc aagaagccca 300
 ggaatattgc ttgaatctgt acaacttctc actgatatga atctctggat caaaaaagct 360
 tacatttcct ctgatggaaa atggaatatg gatgtttttc atgtgagcga tcttaacgga 420
 gacaaattaa ccgacgagaa cctaatacgt tacatt 456

<210> 6059

<211> 439
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-B1

 <400> 6059

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 agggattctt tgggtgtggn atgtgactat ggataggctt atttggggaa atggtttcat 120
 gaaaaggagg ttgtcaaagg ctganaagga tagtgaagtt caccctgaca ccttgnaaag 180
 aatcagaaga gtgnagagga tgaccaanat gacagagagt gtagcaaaca gcatactgtc 240
 tggagtcctt aaagtttctg gattcttcac aagttcagtg gcaaacacca aagtangaaa 300
 gaaattcttc agccttcttc ctggagaatc atccttgcat ctcttgacgg attcaataag 360
 gtctgtgacg ctnttangtn cctgggaagg aatgtaatgt caacctctc cactgttaca 420
 accgaaccgg ttgatnaca 439

<210> 6060
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-B10

 <400> 6060

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 gctcctggag tgtcaagaac agagatttgg gtcggaatca agaaagtaat cgagactttg 120
 caggacaact atccggaatt cgtgtccaga aacatattca tcnacgttcn attctggttc 180
 tacgccatga gagctgtcct ctgccattc ttaactcaac gaaccangag caagtttggt 240
 gtggctcgtc tcgctaaggt cagagagact cttctcaagt acattccagc tgatgagctc 300
 ccagttcagt acggtggggt caaaacagta gacgataccn aattctccaa cgaaactgtc 360
 tctgangttg ttgttaagcc ctggattatc tgnnancatc gaaatcccan ctctgagac 420
 tganngtnca tttggtattn ggacataacc ggttttnggg aatgggaagt tgaagtnc 478

<210> 6061

<211> 468
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-B2

 <400> 6061

 cacgcgtcng ggtgaatgca gtaagagacg gcatgaactt agttccatat aaatatatca 60
 tttgcaggca agggacccca ggaatggata aggccatggg gattagccat gactcagccc 120
 ggacgagcat gcttggtgtc tctgagttta tcggctgctc gccttctttg agtgggtgcga 180
 tcagggtgaa cccatgggat gtagatgctg ttgcagaagc ggtaaactta gccctcacta 240
 tgggtgagac tgaaaagcga ttaaggcacg agaaacacta tcactatgtg agtactcatg 300
 atgtgggtta ctgggcaaag agctttatgc aggatcttga gagggcatgc cgggagcatt 360
 ataataaacg ttgttggggg attggttttg ggcttgagtt tcagagttct gtcactgtct 420
 cccgagtttt aggaagctat cctatcgatn acattgtcct cacgtata 468

<210> 6062
 <211> 506
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-B3

 <400> 6062

 gttgcctgcg ccgnttggcc tggcattccn gggtcgaacc acgcgtccga naaaatatgt 60
 annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnccgc tggacgtcga aacaacctgc 180
 ctcgccaaa cctcagaaga cgatgtaagg tcaccgcttc acgggctaatt attgaacaag 240
 aaggtaacac agtgaaagaa cccattcaga atattaaagt aaagggatac ataacggccc 300
 aagaagagtt tctggagggc ataacttggg cgagaggtct cgatgacatt gctgatatcc 360
 gcggcagatc attgctcgtc gagcttatta gcgccaagac tgaccagcgg attacggtag 420
 aagactacgc acaacgtgta tgggccgaag cccctgatga gaagtacgag tgcgagtttg 480
 agatgcctga agacttggac caatgg 506

<210> 6063
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-B6

 <400> 6063

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tccttttttc tctctcactt tcttctctga aataggaaaa acanaaaaca aatctgataa  120
tcgaaacnga tcaactcactg ctgattccgt aacctaataan atgtcgggag cttcttctag  180
ctccgttctt cacctccgaa ncaaccaaca actggttatca ctccgatctc ncaaaaantc  240
cacctccgtt gcttctcaat tggccgttac gtctgggtgtt agccgtagaa gatcgtgtac  300
ggcgcgatgc tctgtgaaga aaccggtgat tcttgagagt cctttcctag ggactcgtgt  360
gcgggagatc cggatccgag acgcttcagt tctggagatc agatgggtcct gggacggtct  420
gcgaannctt cgaaacggtg gtttaantcgt cattttccgg c                        461
  
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<210> 6064
 <211> 455
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB23-019-Q1-E1-B8

 <400> 6064

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acgcgtccgc aagctcatct taggtgctga cagtcctgcg attacagaaa gtagagttac   60
tacagtccag tgcttgtctg gtactgggtc gttgagagtt ggggctgagt ttctcaaaac  120
acactaccac caaagtgtca ttacattcc aaaaccaact tgggggaacc atcccaaagt  180
tttcaacttg gcaggcttgt ctgtggagta tttccgctac tatgatectg caaccctggg  240
tcttgacttc aaaggcttgc tcgaggatct tggcgctgca ccatctggag ctattgtctt  300
acttcatgca tgtgcacaca atcccaactg agttgaccca acctctgaac agtgggaaca  360
gattcgacag ctgatgagat ctaaaagctt attacccttt tttgatagtg catatcaggg  420
ttttgctagt ggtagccttg acacagatgc acaat                                455
  
```

<210> 6065
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-B9

 <400> 6065

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 aagatgaggt gaagaagacg gaggcgtcta gtttgggtggg gaagctagag acagacgtgg 120
 agatcaaggc ttcggctgat aagtttcacc acatgttcgc tgggaaacca caccatgtct 180
 ccaaagcaag tccaggcaac attcagggat gtgatctgca cgaaggcgac tggggcacag 240
 tcggctctat cgtcttctgg aattacgtac atgatgggga ggcaaagggtg gcgaaggaga 300
 ggatcgaggc ggtggagcca gataagaact' tgatcacgtt tanggttata gaaggatgatc 360
 tgatgaaaga gtacaaagaa cctccttgct caccatccaa gttgancctt aaaccctgga 420
 aggcctgga aantattgtg cactgggaac cttgagtatg aagaaaaaat tagc 474

<210> 6066
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-C1

 <400> 6066

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 aaatctaccg gaagttgaca ggctacgggtg gtgaaggagg gcgtgaatgg gacgatgatg 120
 tatatgaggg tgtaagaaaa gtgtatgtag gacaagatat caatcgtatc acttacgtca 180
 aattcgagta tgtgaaggaa gacggccaag tcgtaacaac tgaatatggg aaaatcattc 240
 aacaacccaa agagtttgta cttcaatatc cggacgaaca tatcatagcg gtggaaggaa 300
 actatcgagg agtgggtcta tgtgccacag aggtgatcac aaacctcgtc ttcaagacct 360
 caaagggtag aaagtcacca ctgtttgggtc caaacttgct tggaattacg accggtacaa 420
 agttcgttat tgangatgga ggaaagaaga tcgtanggtt tcatgga 467

<210> 6067
 <211> 502
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-C12

 <400> 6067

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 ctctctctcc ctctcccaaa atctcagat gcaacctcag ccgcataatt ctccgaacac 120
 cgcaactgcc gcgatctcag ccgcgcttga atctcagcgc agtagaaaan accgaggaag 180
 ttacaattgc ggtagatgtg gtcaacctaa gaaaggccat gtctgtcttt taactgctcc 240
 acctgatatt cccactactc cgatcgcttc tgagccagtg agctgcatct ccgccgccgc 300
 atcttcttcc cgtttctactg tcttatcttt aacagcggcg ccgtcatcgc gacagacctt 360
 cactcactta cgccgagctt tatcggttga tgacgtcgat gcgcgtaatt cactcgatga 420
 atccgatntg gaagetgcat cgaaggattt ggatntacaa ttggatacgg atatgttcaa 480
 cctgggangt tcaagcgggtg gg 502

<210> 6068
 <211> 457
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-019-Q1-E1-C7

 <400> 6068

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 gaagaaaagt tcttacgaag aaccagatt ttgttaagaa atggatgtgc cagaggagac 120
 gaggttcgc cacaagcgag attttatcca gttcctcgat agtatgtata tggaggaaat 180
 caaggctttg gtacatcaaa agcgtcacccg tctcattatt aatatctctg acattcacca 240
 ccacttcagg gaagttgcct ctaggatact gaagaatcca aatgagtata tgcagtcatt 300
 ttgtgacgca gccactgaag ctactcgtgc tattgacct aaatacttga aggaaggaga 360
 gcttgctcctt gttggttttg aaggttattt tgtttctcgc gttgttactc ctanagagct 420
 tctctctgan tttattggga tcgatggctc gtgttga 457

<210> 6069
 <211> 538
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-H8

<400> 6069

acgcgtccgc ccacgcgtcc ggaaaacctt gaaacaaata cggctctttt tttttctttt 60
 tatgggtcgc gaatctctgg ctgttgtgtc ctgcgcgcca tcggcgactg cgcccagtac 120
 tgctgtgtcg gctacctcgc ttgctcctgg ctttcgattt catccgactg atgaggaact 180
 cgtgagctat tacttgaaga ggaagggttct gggtaaacct gtacgcttcg atgcgattgg 240
 agaggttaaga tatctacaag catgagccct ggggatttag caagtgtttt cgaagttgaa 300
 aaactccggg aacaaagaaa tgggnacttc cntcantggc gtttangata aggaaagtaa 360
 cnggtaaatg gggggccaag ggattnaaat tcngaagcaa anntaannaa aanggggtta 420
 aacgggggaa aagnnaactg gggaaaaaga ncangnggaa aaatnccgcc ccggggaata 480
 attcaanttt gcctccgggt aatgaaaaaa aagaangcct tggtttttcc aacaaagc 538

<210> 6070
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-F8

<400> 6070

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 ataaagagaa acccatttta aaccctagaa atcaagtgtc aatctcggaa accttctgat 120
 tccgcaacaa tggcagttac agatactgaa agtcctcatc ttggggaaat tacttgtggt 180
 accttacttg agaagttgca ggaaatctgg gatgaagttg gtgagagtga tgatgaacga 240
 gacaaaactgc ttcttcagat agagcaagag tgtcttgacg tttacaagag aaaagtcgag 300
 caggctgcga aatcccgagc tgagcttctt caaaccttgt caaatgctaa tgctgaacct 360
 ttccaacctc aaaagggccc ttgggganaa aaagcctaata tggnaatccg gataagtctt 420

caggaacgat taaagaacaa cttgctgcaa tagcaccggc tcttgaacaa ct 472

<210> 6071
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-F9

<400> 6071

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agaacttgggt catgtgtcca tttttagaaa tcaataaaat attataccat atatttatag 120
tatctaactt taagagaata aatattttta tttgccgatt catngngaca cacatgcgtg 180
tggatatctat gtctatccat taaactaatt atatataaac ttattttctg gccacaattt 240
ttgtttcgtg tatagagaga gctcaaagat ggaaccaaca gaanaaccat cgaccaaacc 300
atcttctcgg actctaccta gagacactcg tggctctctc gaagtantca acccgtnac 360
tcangctgac ccgacccgat tncccggtgt tcngtcctg aaccannagc gtnggcaaga 420
cttgagtgat ccacgtggca ccagtctca accncg 457

<210> 6072
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-018-Q1-E1-G1

<400> 6072

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tcctgatgtt acaggcttag atgaggaagg gagaggtgaa tcgaatgatt tgcctcaatt 120
tcgtgagttc tctatagaga ctataaggaa cgcaacttca ggatttgcag cagagaatat 180
agtttcagag catggtgaga gagctcctaa tgttgtctat aaaggcaagc ttgagaatca 240
aagacgtatt gctgtcaaaa ggtttaaccg gaaatcttgg gctgattctc gtcaattctt 300
ggaagaagcc aaagctgttg gtcaattacn gaatcatagc atggcaaadc tacntgggtg 360
ttgttatgaa natgaanaga gactacttat tgcagagttt angcctaagc aaactttggn 420

gtccacgtg ctgtctttgg tgatcttgan ccaactgtga tcgacgaggt cagganngga 360
 antaacggta agtttncaac cngnaaacca tcagcggtaa gaagatgcag taaaaattcg 420
 cccgtggcaa tacacaatgg gaaagaattg tgact 455

<210> 6077
 <211> 480
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-G9
 <400> 6077

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 cagctagacc caaacacacc atcaccaatc ttgcgcggaa gcacaggagg tctcctccgt 120
 aaagcacaag tagaggaatt ttacgtgatc acatggaact caccgaaaga acaaattctt 180
 gagatgccaa caggaggagc tgcgataatg agagaaggac cgaatctatt gaaactggcg 240
 aggaaagaac agtggtttggc tttaggtacg aggttgaggt caaagtacaa gatcacttac 300
 cagttttaca gagtgttccc taacggagag gttcaatc ttcacccgaa agatggagtt 360
 tatccagaga aagcgaatcc aggaagagaa ggtgttggac taaacatgag atccatcggt 420
 aaaaatgtta gtccattga ggttaaattc actggggaaa caatccttaa ganttgtag 480

<210> 6078
 <211> 462
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-H11
 <400> 6078

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 ggctgctggc atcgctacta attaattatt gtgattaaga aaaaatgcta aattgagttt 120
 cgctgtcttc tgcttctgct taagcttctt catcanttag ctccagaggc ggagctttct 180
 tctctctctg tggacgacca tggcggcgga cgacggcgac cccactaaat tcgctgcaat 240
 ctacgactca tctctccgt cacacctct tctctctaaa cctccacgt ccgctctcga 300

ttctccgctg cnaagtgatc ccgaatccga cccaactcag tttcttcaga tctcctacaa 360
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<210> 6079
 <211> 494
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-H2
 <400> 6079

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 tctgacattg attctcgatc tgatgatcct caaatgtgtg gaccttatgt tgctgatatc 180
 tatgagtatc ttcgtcaact tgaggtgaag ccaaagcaga gacctttacc agattacata 240
 gagaaagttc agaaagatgt aacaccaagt atgagagggtg ttttggttga ttggttagtg 300
 gaagttgctg aagagtataa acttgatctt gaaacacttt atctcactgt ctacatatt 360
 gatagattcc tgnctntaaa gacngttaac aaggcaaaaa nctnaantcg tttngngntt 420
 cngccangcn taatgcctcc aagtatgaag agataagtcc tcctaaagtg gatgattttg 480
 ttacattacn ggta 494

<210> 6080
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-H3
 <400> 6080

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 aagacgaaac atggcttctt cttctacttc tctgaaaaga agagagcaac caatttcgcg 120
 agatggagat caacttatcg ttactccggt aggagccgga agtgaagtgg gtcgttctcg 180
 tgtttacatg tcttccgag gcaaaaatat tctgtttgat tgtgggattc atcctgcgta 240

ctcgggcâtg gctgcgttgc cttacttcga tgagattgat ccttcttcca ttgatgtcct 300
 cttgattact cactttcata tagatnatgc agcatctcta ccttaatttc ctggnaana 360
 cnaaatncaa gggnggggt ttcaagnnac atgcaacaaa ggggcatcta caagctgttg 420
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<210> 6081
 <211> 517
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-H5
 <400> 6081

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 tgggggttagt caccaaaaaa aaaaaaaaaa acacaaaaag tttcaatggc cgctccaca 120
 atggctctct cctccccctgc cttegcgcga aaggctgtga acctttcccc cgcggcacatc 180
 gaagtcctcg gaagcgggccc tgtgacaatg aggaagactg ttgccaagcc aaaggggtcca 240
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 tcaccgagct accttaccgg agagttcccc ggagactacg gatgggacac cgctggactt 360
 tcagctgatt ccgaaaaatt cgcaangaa cctnancct aaaanttttc caaanaagt 420
 tgggcnatnc cngnnccena aaggtggtnt tcctganct tttggntaag aaacggagtc 480
 naatttcgga aaagcgggttt tggntcaaag gccggtt 517

<210> 6082
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-018-Q1-E1-F4
 <400> 6082

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 tgtctctgct catctctggt tcaggagcaa agttctccgg ccggccagga atcaactatg 180

gccagctcgg aaacaacctc ccgtcacctg ccgactcagt caacctcatt aagtccttaa 240
acgcgaaacg cgtcaaaactc tacgacgcta acccaaaaat cctccgccgc gttaaaccggc 300
acgacattac cgtctccgtc atggncccaa acgaagtcct cgtcaanatt tccaaatccg 360
cataatcccc ganaangggg tccattttaa ancctcccggt tttaaccaa ncaccaagat 420
nctttaactc ctcgtcggna acgagattct ctccttaaca gactctgagc tc 472

<210> 6083
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-B11

<400> 6083

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accatctaga atcttccttc aacctctaga aaacaacttt cgtatccttc aaaaacccta 120
aaccctagct tttgcacaga cgcaatttca tcgcatcatt ttgcaatttt cctttactga 180
tctgtcacca cctcttgaat ttcgaaacca tggctaccgc agctctcttc cgctctattc 240
gacgccgtga agtcgttttc tctcctttct cagcttacag atgcctttca agcagtggga 300
aagcatcatt gaacagtttc tatctgggtc agaatttttag aagcttttcc aagagccttt 360
agctcgaagc ctgctggaaa cgatgtcatt gggatttgat ttgggtacta ctaattcaag 420
tgtttgccgt catggagggg aagatccgaa agtcattgaa aatgctgaan 470

<210> 6084
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-B3

<400> 6084

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gtatcgaggc tcagatgggtg tagatctttc tctccttgaa gcacttgaga agtcttcgca 180

taatggagta gaagcgcttg atcttaaaac cctaaaaaag cttgtcctct ccttcgagcg 240
 gcgtcttaga gacaacatag ctgctcgtct caagtatgtg gagaatccag aaaagttcgc 300
 tgactcagag gttgacctac aegacgatct tcagaagctc aagggtgctcg ctggaagctc 360
 cggaacttta accggacctt gttgcttcca atacgggttc ttcgattgtc aatctcctct 420
 cccaatgaaa actcccgata tcgccaaacg atgtttgttc aancttcctc aaggattctg 480
 actgacgaaa atgccctaag aag 503

<210> 6085
 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-B9
 <400> 6085

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng 120
 ggcaaccatg attanggtcg tcacctccag gctctctctc ctctctccag tcttctccgt 180
 cgttaactct tcttcttcgc gttccaaaga tatgaatcta gagccaaaaa agaagggttaa 240
 attaagagaa gactggagag aaaagtccag acctatccca cccggaggaa cctatccagc 300
 taaagaccat tgcagtcagt gcgggctatg cgacacctac tacattgcc atgtgaagga 360
 ngcatgtgca tttcttggag atggaatgtc aaaggattga gagcttggaa cctgttgtgc 420
 atggtagagg aanga 435

<210> 6086
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-C10
 <400> 6086

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatatttc tcaatgtctc 180
 ctctcccaat ctcccatcgt ctccctcacg ccacgttctc ttcctttctc ctncactgt 240
 ctcaagctgg nagttctaata acatcagtggt cattcctcan tgccttcana tcagangata 300
 tcattgctcg aattggncata tgggtggcanc ttatnagggc tgttgtagtt gtacctgtct 360
 tcaagttcct ggtgcttcta tgtttgggtca tgtctgtcat gttcttcgtt gaggttatgt 420
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 c 481

<210> 6087
 <211> 482
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-C11

<400> 6087
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 gtttggggtc acgccgtgtc tagggacctt atccattggg tccatttgcc catagccatg 180
 gtcgctgac aatggtagca ctccaacggt gtgtggaccg gctcagccac atttctccct 240
 gatggctcta tagtcatgct ctataccggt tccaccgaca aagcgggtgca ggtccaaaac 300
 cttgcctacc ctgaagaccc caacgaccca cttctgttga aatgggtcaa gttcccgagg 360
 aaccgggttc taatacctcc gcccggtatc ctccctaagg acttccgtga cccaacgaac 420
 tgcattgaaa gacatcaaga aggaaaatgg cggatnacga attgggtcca agtcaaaca 480
 aa 482

<210> 6088
 <211> 447
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-C12
 <400> 6088

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catcatcaaa ttggagaaga taaccgaaga aaatcggtccc ccttcgcccg tgatcatcat 120
ctcaaccgac ggtctcaaca tctgtgactt cgaacataat cggcgatttt gatgaaccaa 180
atcggagaga gaagattaat aagatagttt tgaggaagaa atcacaatta gagcttaaag 240
caagaataaa tcacaatcac aagatgagaa tttttcggac aacgtagtga taatcagtca 300
atcggagaaa gaaggtgacc cgagtgttat aaccatcaat tgtcctgaca aaacgggtct 360
angttgtgat ctttttcgta tcctcctctt cttcggcctc aacattgtct gangangtga 420
ttgggaaacc aaacacgaga tggatct 447

<210> 6089
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-C2

<400> 6089
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attaaagtaa agtatctctc tcttttttct cctacgtact ccatagtgat ggcttcatcg 120
cttctgacat cttccgttat gatccctacc accggttcca ccgtgggttg ccggtcagtg 180
ttaccctttc aatcttccct gcaactctctc cgcttgaccc attcgtacaa gaaccccgca 240
ttgttcatct catgttgctc ttctgtgtcc aaaaatgcgg gcaactagtt ctactgatct 300
caaaccggtt gtggaacggt ggccggagta cataccgaac aagcttcccc gacggaaact 360
atgtgcgtgt attcgacang acgctccgtt gacggtgaac aatctcctgg gtgggattcc 420
ctcaatcccg gccgcaaaaa gctaagagaa ttggcccgcac aagctcgcct aaaactcccg 480
aagtaagaca tcatgggaag tcggttttcc c 511

<210> 6090
<211> 525
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-C4

<400> 6090

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tcacacttcc accgccgata tgctttcttg gtcggaaann nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnaccaagc cgtccgatgg aatcagcaaa gattcctaag 180
gcgggtggtca agattaacaa gaatngaaag aaacccaag tccgccttaa ataaagccta 240
aaaagaattht ggttcaangg gtaacaaagt tnaaaaaaga agaathgaac tgggtaantg 300
gggcaataat tttaactgga atnaagggga aaaanttttg ggattctgga aatccccgatg 360
gctaactaac tggatnccaa aagaactggg actccgttac taacaagcaa gactcctgaa 420
tgggaatgag tcaagatata cttcaantgc tgacggtaat gtttcccccg aagaaaacaa 480
ncaactthaa ccgaaggthg aaagcaaaga agagctganc cggga 525

<210> 6091

<211> 471

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-017-Q1-E1-D10

<400> 6091

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tgthganccg gagtcaccgc gtgaatcacc ctcaccggag agatctgtgc cactccgccg 120
ttccaaccgc caagcaaacc gtaagggaga ctgctcgaga aaagccaccg agaanggtaa 180
tcgggaatct tctcgtgthg ttatgtgant gtgthatttg attattaaac catgatctaa 240
ataaaaaccag ttaaaaacaa tgaatgthtg tttanttaga ggttacntga aattgtgtcg 300
tgaggaacaa gaagatgact tcattcattg gthtagthgt tanagtaccg gthtaattgcc 360
aaaccggaag ctatctthca cgtgaatgca tggatccaat tgtggacgta gtgthacgtg 420
tagtaantga atcannatth aantatnana thtggttgga ntaattthac t 471

<210> 6092

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-D12

<400> 6092

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tagccgatct cgggcgacca ttggtggttc cggttgtctc ggagcgtaaa cctccggcag 180
acgtcggact cggactagag agtgttttaa cggagcgtag ccttccgtac cggaggcgcg 240
tgtacttagg ggcatgcata gagatgaagc tacttttccg gttggcactt ccggcgatac 300
ttgtctatct agtcaacagc ggaatgggta tttccgctcg gatcttcgcc ggacatctcg 360
gtaaaaatga nctcgccgcc gcgtccatcg gaaacaagct gcttcaatct cgtctatggc 420
ctcatgttan gtatgggcag tgcagtcgaa acactatgtg gaca 464
  
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<210> 6093
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-017-Q1-E1-D3

<400> 6093

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ttcgttaaga aagcagatcg acatggcagc tcaaggaggt gattcatatg aggaagcggt 120
ggctgctttg tcgtctttga tcacgaaacg aagtcgtgct gataagagca ataaagggga 180
tcgctttgag ttagtctttg attatctcaa gctacttgac ctggaagaag acattttaaa 240
gatgaatggt attcatgtcg ctggtaccaa aggcaaggga tccacatgta cctttacaga 300
gtctattatt cgaaactatg gctttcgaac tggactcttc acttcacctc acctcattga 360
tgtccgggaa agatttcggt tggatgggtg ggacataagt gaagagaaat ttttgggata 420
tttctggtgg tgctataaca ggctcaagga 450
  
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<210> 6094
 <211> 448
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-017-Q1-E1-D5

<400> 6094

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ctaatacatgg gttttatcga tggaaagtgg gcaccaatga tagtcttaat tgtttctaac 180
atgattgcgg gaatgggttaa tgcttttagtt aagaaagttc ttgatggagg catcaatcat 240
atgggtattg ctacttatcg tttgggtata tctactcttt tccttcttcc agtcgcttat 300
ttttgggaac ggaaaacaag accaaagcta actctaagca tctcatgtca gcttttcgtc 360
agtgcctttt ttggggcgag cttgatgcaa tattctactt gccttggact gtccctacacg 420
tctgcaacgc tggggatctg ctttctgg 448

<210> 6095

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-017-Q1-E1-D6

<400> 6095

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tacggtgaaa aggagtggta ttttttctca ccaagagatc gaaagtatcc aaacggttca 120
agaccaacc gtgcagctgg tactggatat tggaaagcta ccggagctga taaaccaata 180
ggtcgtccta aaccggttgg tattaagaag gctctagtgt tttactcggg aaaacctcca 240
aatggagaga aaaccaattg gattatgcac gaataccggc tcgctgacgt tgaccgggtcg 300
gttcgtaaga aaaacagtct aagattggac gattgggtat tgtgtcgtat atataacaag 360
aaaggtgtca tcgagaagcg acgaagcgat atcgaggacg ggttaaagcc tgtgactgac 420
acgtgtccac cggaatctgt ggcgagattg atctccggct cggagcaagc ggtgtcaccg 480
gaattcacgt gt 492

<210> 6096

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-B1

<400> 6096

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cggttttact tcctctctgt ctgattatct ccatgttcac ctattcaaac gcagcgtatt 180
gtctttgcaa agaggggaac gagcaagtgc ttcagaaggc aatagactac gcttgtggaa 240
atggagctga ctgtaccag atccaacca ccggagcttg ttaccaacct aacaccgtca 300
aaaaccactg tgacgtcgcc gtcaacagtt actaccaaga aaaaagcttc ttccggtgcc 360
acctgtgact ttaacgngc cgctcccc tctactaacc ctccgtcaac tgcttcaaac 420
tgtttaactg gttcaaagct ctagtggcac tccctaac 458

<210> 6097
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-F8

<400> 6097

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aaacacactc cacaaaactt gcaacagcaa ggacaaggac ttggtgagca aggaagagac 120
actcaaggac ttggaagcac acaagagttt ggacaacgtg atagacaaca ggatcttggt 180
agccaatttg ataaaactca acaacaagga caacaaggac aacaaggaca acagggacaa 240
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caaggaggaa agcaacaaga tttgggacaa caacaatttg gatcaactca gcaaaagaac 360
caagactttg gacagagatc ataaagagat gaagcaacga ngcgatgatg atctcccaaa 420
aagaagaaag tctgtttaat tgatgtgtt 449

<210> 6098
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-F9

<400> 6098

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ttttgtgtga ttcaacggcg acatttcaat ctcttcacc aacggttcct tggagagaac 180
cttctacagt cgccgtgtct ctccaagatg tagatcttgt tgaccaatcc gcggctgctg 240
cggcggtgga cgcggttgag aagacaatgg gccgccgcaa ctaccaccgc cttggggatg 300
aagtttttgg attggaggan gcncaaagac ggcactgan ccggctanaa gcnanaaggt 360
gtgnttgtgg aaaacatcct gggtaaaaga atgaaacccc cgggcttcg ttcgttttcc 420
ggtcncncc ncaanggggg gaaaaagggt tcctcngac ggggaaacng tttggttcaa 480
cc 482
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<210> 6099
 <211> 447
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-G10

<400> 6099

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caatacctcc gctttcacat ctacctttt ccgattgcgc accaaatctt ctttcgattc 180
aatctcgttc tcgtcttcaa ctcccttctc cgctcatcg ctctctctc acacgtctta 240
taccaaaaga aaccaccgct gtttctctgt tcaatccaat gctgagggtg ttactgaacc 300
gcaatcgaaa ataacacaca aggtgtatct cgatataagt gttggcaatc cagtggggaa 360
gttagctggg gaggattgtt antggattgt atgggtgatga atgttcccca aactgtggag 420
aacttcgtgc tccaagcaca ngtgaaa 447
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<210> 6100
 <211> 472

<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-G5

<400> 6100

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 gtctctcttc tcttgatctt ttagtggttct tgctttgtcg cttcaacgct taagtttgga 180
 tttgtgtgag tctgcataat catggcgagg aagatgcttg ttgatgggta gattgataag 240
 gtggcggtcg atgaagccaa cgcgacgcac tatgattttg atttgtttgt catcggtgcc 300
 gggagtgggc gtgttcgtgc tgctaggttt tcggctaate atggcgctaa ggttgggtatt 360
 tgtgagcttc catttcaccc tattagctct gaggagattg gaggcgttgg tggaacctgt 420
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<210> 6101
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-G8

<400> 6101

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 ttgttgctga aatgcaaaaa cgacagcgtt ttaaagttgg agcatcttat ggaccagatc 180
 gcacacgtcc ctgttcatca gtttcaagtc gctatgggta tggttgggtg taataatgag 240
 cgacaaggaa atggctgctg gttatcccag ctggaataag ttaatcttga gtttttctat 300
 caaattttgt agtttttagag tagaaactat ataaatttac gtttgtatat atattttgta 360
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<210> 6102
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-H8

<400> 6106

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aatacaaaat ttatacagaa caaccacaaa ttctgtctag tttagttaaa cgtgttaaaa 120
tagtcacgca atgctttttc tttttttaaa aattaataag ctctgacctg tacgcaacca 180
aataaaacac taaaacttat ctgtgatcaa cttagctctg tataaaaatc ttctctctct 240
ttctttctgt ccaattctct acagagaagt cttagctttt gcaaaatcat taactaatct 300
ctgttttgat gactagataa cttggatgta ggattattat acctaaattc tttctttcca 360
tgcatttatg tcggttttga catctttgtt ctcttaagtt taaaagatat caatattaag 420
ttatcntcaa tctttgacaa ttgg 444

<210> 6107
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-017-Q1-E1-A11

<400> 6107

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ctcaaagcac agagagaaga tgagcgaaga acaaccacac gccaatctag cggttccccgc 120
gtttaaaact gagaaagagc ccataacgca aacacgaaat ggtcaaagta gcgtttggcg 180
tttcggtgga agtgataagg cagcgaaagc atccaccgta acgcttagag gtgtcatcta 240
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tgacccttcc gtctaccctt gtttccgtac ctgtatcgaa gctgaagacg ccgctcgtcga 360
cgtccttcgc tccggcaaag gcaattctta cggtecccggt agctgggatt ctccccgcaa 420
gaacnaaccc gtttgctgat tataatgaan ccgaga 456

<210> 6108
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-A2

<400> 6108

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 caaagcaa at aggcggaacca atgcatcagt tggcggctaa ggtagatgag tatgctcgag 180
 gaatgataag cgggactgga tcgtcactgt ttgaagaact cggctctttac tatattggtc 240
 cagttgatgg gcacaacata gatgatttgg tagccattct taaagaagtt aagagtacca 300
 gaaccacagg acctgttctt attcatgtgg tgacgganaa aggtcgtggg tacccttacg 360
 cgggatagag ctgatgacaa ataccatggg gttgtgaaat ttgtttcanc aaccgggtag 420
 acagttcaaa actactanta agaccaatcc t 451

<210> 6109
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB23-017-Q1-E1-A4

<400> 6109

acgcgtccgg acanatttgc taaaggctag ggatatctcg ctctgtaaaa ctcatctcga 60
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 gcaggagggt cattcaa atg gtctgttct tgatgatact ctacttcagg atccagagat 180
 aatggatgca attgagaatg aaaagacggg tcacaaaacc atgagtatat acaatgtana 240
 tcgttctggt tgcggtcgga ttgctggggg gattgcaaag aaatacgggg aacttggttt 300
 ttgctggaca aactgaaacc taaacgttca actgggaaat gctgggcaat cctttngcaa 360
 ttgtttccct aaactccttg gaaattgaaa taataacgtt cttgggttggg ttgaanccaa 420
 acgaaccaat nttgggaaaa ngggaattgg ccgggaaagg ttaaagttgt naa 473

<210> 6110
 <211> 479
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-F7

<400> 6110

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tgatgctctc ctccgtcgcc tectcaaaaa gcggcttctt ttccttctgt tactcgaagg 180
attcaaatat tctgtagaga atatagatct ccgaggcaaa agctcagtta acgcagaatg 240
gatggcttac attggaggct tcgttaatct aattactcta aatctttcag attgccagag 300
aatcaacagt tccacctctt ggcttatcac aggattaaca agtttgacag agttggacct 360
ttcaagatgt ttcaaggtta cggatgctgg tatgaagcan ctccaatctg ttgtaaatct 420
gaaaaaagtt gtggatttta cagacaaggt gtcactgaaa gttgggaatt tcccttct 479

<210> 6111
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB23-016-Q1-E1-D11

<400> 6111

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tcgtacagtc ctactttgac aagagaaata tcggatgccg tgggtggtgaa ggcgaggatg 180
gacacgacgt cgtttggttc tggctagata aaggaaagtc atttgaatgt ccagtgtgct 240
ccaataactt tgagcacgga ccaccagacg gtcatggtga cgatgaagac caccaccatt 300
gattccggtc ttttcttaac ggcgaaatgt tttcctctat tgtagtgagt tggaataaat 360
aattccccgt tgggtggaaa acactttaaa taatgttttt tttgatcctc caagaaagac 420
accaacaact ttaattggcc tcaagggtc cnaaccctt tttgccttct cttgagaa 478

<210> 6112
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-E10

 <400> 6116

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 acctagactt ttctcttcca tcgatggcgg ctaataacag atccgatcat gggtcagacg 180
 aaaacacaag actttacaat ccttaccaaa actacgaagt cccaatcaac aaatctcagt 240
 acctttacaa gcttcctacc tcnctgagt ttctcttcac ggaggaggct ttaaggcanc 300
 gtagatcttg gggtgagaat ctactttct anagngganc aagcttacct cgggtggctcc 360
 gttgccggga gcttctgttg gagtcatcnc tggagtcaaa aacttcgaat ctggcgacan 420
 ta 422

<210> 6117
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB23-016-Q1-E1-E11

 <400> 6117

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 tcgagttttc cttcctatgg aaagaatcct ggaagtagga gaaagaagaa taggaaagct 180
 actgaggaga atgtgactgt tgaaacgaat gacgaagtat ccgattctga ggatagctct 240
 gaagaagagg aaaatgattc ctcgatggg tttgttacct ataagaatga atttgagaga 300
 gaagaagagg agactggttt tgaattagac aaaaagcttt ggaaggccac atcctttcat 360
 tgattctacg aaaaaagaaa caaattgaaa agacactcac ganccgatga atcnttgggtg 420
 gaactggaag aaaccggaga aagaacaatg ggtcaaagat ggcaaaag 468

<210> 6118
 <211> 448